XR-C7200/C7200W

SERVICE MANUAL

US Model
XR-C7200

E Model
XR-C7200/C7200W

Photo: XR-C7200

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
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Model Name Using Similar Mechanism	NEW
Tape Transport Mechanism Type	MG-25D-136

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS (US model)

POWER OUTPUT AND TOTAL HARMONIC DISTORTION
17 watts per channel minimum continuous average power into 4 ohms, 4 channels driven from 20 Hz to 20 kHz with no more than 1 % total harmonic distortion.

Other specifications

Cassette player section

Tape track	4-track 2-channel stereo
Wow and flutter	0.08 % (WRMS)
Frequency response	30 – 20,000 Hz
Signal-to-noise ratio	

Cassette type	Dolby B NR	Dolby NR off
TYPE II, III, IV	67 dB	61 dB
TYPE I	64 dB	58 dB

Tuner section

FM

Tuning range	
US model:	87.5 – 107.9 MHz
E model:	FM tuning interval: 50 kHz/200 kHz switchable 87.5 – 108.0 MHz (at 50 kHz step) 87.5 – 107.9 MHz (at 200 kHz step)
Antenna terminal	External antenna connector
Intermediate frequency	10.7 MHz
Usable sensitivity	
US model:	8 dBf
E model:	9 dBf
Selectivity	75 dB at 400 kHz
Signal-to-noise ratio	65 dB (stereo), 68 dB (mono)
Harmonic distortion at 1 kHz	
	0.5% (stereo), 0.3% (mono)
Separation	35 dB at 1 kHz
Frequency response	30 – 15,000 Hz
Capture ratio	2 dB

AM (US model)

Tuning range	530 – 1,710 kHz
Antenna terminal	External antenna connector
Intermediate frequency	10.71 MHz/450 kHz
Sensitivity	30 µV

MW (E model)

Tuning range	MW tuning interval: 9 kHz/10 kHz switchable 531 – 1,602 kHz (at 9 kHz step) 530 – 1,710 kHz (at 10 kHz step)
Antenna terminal	External antenna connector
Intermediate frequency	10.71 MHz/450 kHz
Sensitivity	30 µV

SW1, 2 (E model)

Tuning range	SW1: 2,940 – 7,735 kHz SW2: 9,500 – 18,135 kHz (except for 10,140 – 11,575 kHz)
Antenna terminal	External antenna connector
Intermediate frequency	10.71 MHz/450 kHz
Sensitivity	50 µV

– Continued on next page –

MICROFILM

XR-C7200: US Model

FM/AM CASSETTE CAR STEREO

XR-C7200/C7200W: E Model

FM/MW/SW CASSETTE CAR STEREO

SONY®

Power amplifier section

Outputs	Speaker outputs (sure seal connectors)
Speaker impedance	4 – 8 ohms
Maximum power output	40 W × 4 (at 4 ohms) 35W × 4 (at AM band, 4 ohms)

General

Outputs	Line outputs (2) Power antenna relay control lead Power amplifier control lead
Tone controls	Bass ±8 dB at 100 Hz Treble ±8 dB at 10 kHz
Power requirements	12 V DC car battery (negative earth)
Dimensions	Approx. 184 × 50 × 176 mm (w/h/d)
Mounting dimensions	Approx. 182 × 53 × 163 mm (w/h/d)
Mass	Approx. 1.3 kg
Supplied accessories	Parts for installation and connections (1 set) Front panel case (1) Rotary commander RM-X2S (1) (E model) Wireless remote RM-X45 (1) (E model)

Design and specifications are subject to change without notice.

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Flexible Circuit Board Repairing

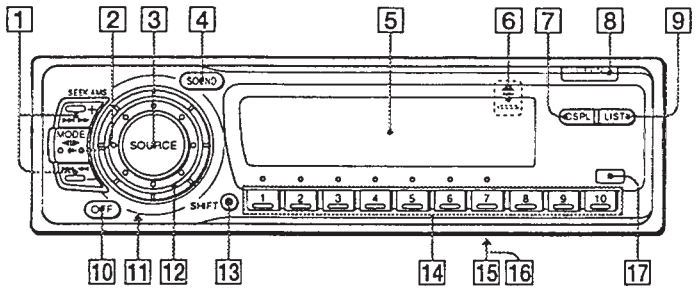
- Keep the temperature of the soldering iron around 270 ˚C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

This section is extracted from instruction manual.

Location of controls



Refer to the pages for details.

1 SEEK/AMS (seek/Automatic Music Sensor/manual search) button 6, 8, 12, 14

2 MODE (band select, unit select, tape transport direction) button 6, 7, 8, 12, 14

3 SOURCE (source select) button 5, 7, 8, 12, 14

4 SOUND button 11

5 Display window

6 ⏏ (eject) button (located on the front of the unit hidden by the front panel) 6

7 DSPL button (display mode change) button 6, 8, 9, 12, 14

8 OPEN button 4, 6, 16

9 LIST button
Disc Memo 13
List-up 9, 14
Station Memo 9

10 OFF button 4, 6

11 Reset button (located on the front of the unit hidden by the front panel) 4

12 Dial (volume/bass/treble/left-right/front-rear control) 5, 9, 13

13 SHIFT button
BTM 7
SET UP 5, 11, 12
PLAY MODE 7, 12, 14, 15

14 During radio reception:
Preset number buttons 8
During CD/MD playback:
Direct disc selection buttons 12

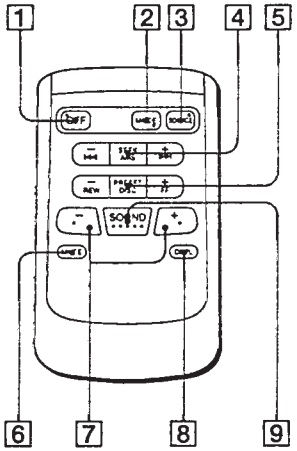
15 POWER SELECT switch (located on the bottom of the unit)
See "POWER SELECT switch" in the Installation/Connections manual.

16 Frequency Select switch (located on the bottom of the unit) (E model)
See "Frequency Select switch" in the Installation/Connections manual.

17 Receptor for wireless remote

Wireless remote (RM-X45)

(E model)



Buttons with the same functions as those on this unit.

1 OFF button

2 MODE button

3 SOURCE button

4 SEEK/AMS button
You cannot do manual search and manual tuning with the remote commander.

5 PRESET/DISC button

6 MUTE button

7 ⊖ ⊕ buttons

8 DSPL button

9 SOUND button

The unit cannot be operated with the wireless remote unless (SOURCE) on the unit is pressed or a cassette is inserted to activate the unit first.

Getting Started

Resetting the unit

Before operating the unit for the first time or after replacing the car battery, you must reset the unit.
Press the reset button with a pointed object such as a ball-point pen.

Front panel detached

Reset button

Note
Pressing the reset button will erase the clock and some memorized functions.

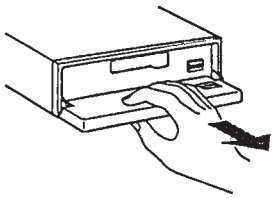
EN

Detaching the front panel

You can detach the front panel of this unit to prevent the unit from being stolen.

1 Press (OFF).

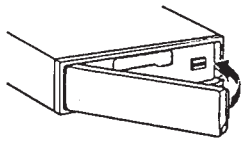
2 Press (OPEN) to open up the front panel, then pull it off towards you.



Notes
- *Do not put anything on the inner surface of the front panel.*
- *Be sure not to drop the panel when detaching it from the unit.*
- *If you detach the panel while the unit is still on, the power will turn off automatically to prevent the speakers from being damaged.*
- *When you carry the front panel with you, put it in the supplied front panel case.*

Attaching the front panel

Align the front panel with the unit, and push in.



Notes
- *Be sure not to attach the front panel upside down.*
- *Do not press the front panel hard against the unit when attaching it. Press it lightly against the unit.*
- *Do not press hard or put excessive pressure on the display of the front panel.*
- *Do not expose the front panel to direct sunlight, heat sources such as hot air ducts, and do not leave it in a humid place. Never leave it on the dashboard of a car parked in direct sunlight where there may be a considerable rise in temperature.*

Caution alarm

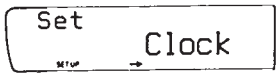
If you turn the ignition key switch to the OFF position without removing the front panel, the caution alarm will beep for a few seconds (only when the POWER SELECT switch on the bottom of the unit is set to the Ⓐ position).

Setting the clock

The clock has a 12-hour digital indication.

Example: Set the clock to 10:08

1 Press (SHIFT), then press ② (SET UP).



❶ Press ④ (→).

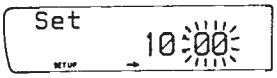
The hour digit flashes.

❷ Set the hour.

to go backward

to go forward

❸ Press ④ (→).

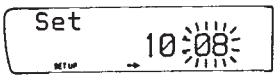


The minute digits flash.

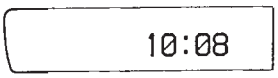
❹ Set the minute.

to go backward

to go forward



2 Press (SHIFT).



The clock starts.

Note
If the POWER SELECT switch on the bottom of the unit is set to the Ⓑ position, turn the power on first, then set the clock. To turn the power on, press (SOURCE).

Installation

Precautions

- Do not tamper with the four holes on the upper surface of the unit. They are used for tuner adjustments to be made only by service technicians.
- If you mount other Sony equipment with this unit, it is better to mount this unit in the lower position.
- There must be a distance of at least 15 cm between the cassettes slot of the unit and shift lever to insert cassette easily. Choose the installation location carefully so the unit does not interfere with gear shifting and other driving operations.
- Choose the mounting location carefully so the unit does not interfere with normal driving operations.
- Avoid installing the unit where it would be subject to high temperatures, such as from direct sunlight or hot air from the heater, or where it would be subject to dust, dirt or excessive vibration.
- Use only the supplied mounting hardware for safe and secure installation.

Mounting angle adjustment

Adjust the mounting angle to less than 20°.

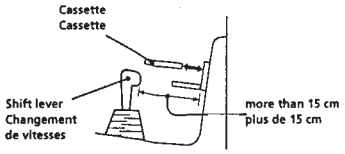
Installation

Précautions

- Ne pas toucher les quatre orifices sur le panneau supérieur de l'appareil. Ils servent aux réglages du tuner qui ne doivent être effectués que par un technicien.
- Si vous installez un autre équipement Sony avec cet appareil, il est préférable de monter cet appareil en position inférieure.
- Pour pouvoir introduire et éjecter aisément la cassette, il doit y avoir une distance d'au moins 15 cm entre le logement de la cassette de l'appareil et le levier de changement de vitesses. Choisir l'endroit de montage de telle façon que l'appareil ne gêne pas le maniement du levier de changement de vitesses ou toute autre opération de conduite.
- Choisissez l'emplacement de montage avec soin de manière à ce que l'appareil ne gêne pas les mouvements du conducteur.
- Eviter d'installer l'appareil dans un endroit exposé à des températures élevées, comme en plein soleil ou à proximité d'une bouche d'air chaud, ou à de la poussière, saleté ou vibrations violentes.
- Pour garantir un montage sûr, n'utiliser que le matériel fourni.

Réglage de l'angle de montage

Ajuster l'inclinaison à un angle inférieur à 20°.



How to detach and attach the front panel

Before installing the unit, detach the front panel.

To detach

Before detaching the front panel, be sure to press (OFF) first. Press (OPEN) to open up the front panel, then pull it off towards you.

To attach

Align the front panel to the unit ; and push in.

Retrait et pose du panneau avant

Avant d'installer l'appareil, déposer la panneau avant.

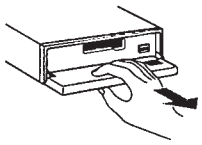
Retrait

Appuyez d'abord sur (OFF) avant de déposer la façade. Appuyez sur (OPEN) pour déverrouiller la façade et tirez-la ensuite vers vous.

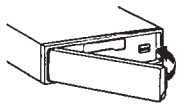
Pose

Présentez la façade sur l'appareil et encliquetez-la.

To detach
Retrait



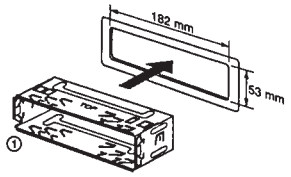
To attach
Pose



Mounting example

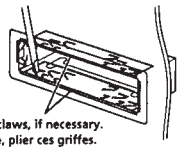
Installation in the dashboard

1



With the TOP marking up
Avec l'inscription TOP vers le haut

2

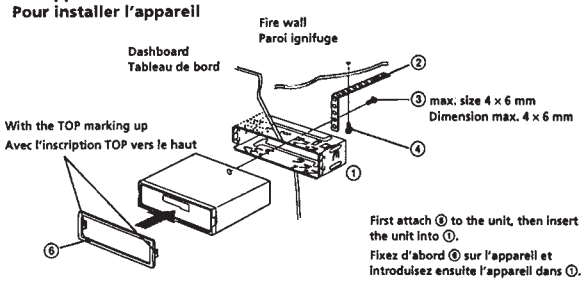


Bend these claws, if necessary.
Si nécessaire, plier ces griffes.

Exemple de montage

Installation dans le tableau de bord

To support the unit
Pour installer l'appareil


Fire wall
Paroi ignifuge
Dashboard
Tableau de bord
With the TOP marking up
Avec l'inscription TOP vers le haut
③ max. size 4 × 6 mm
Dimension max. 4 × 6 mm
First attach ④ to the unit, then insert the unit into ①.
Fixez d'abord ④ sur l'appareil et introduisez ensuite l'appareil dans ①.

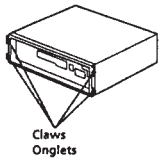
Mounting the unit in a Japanese car

You may not be able to install this unit in some makes of Japanese cars. In such a case, consult your Sony dealer.

Installation de l'appareil dans une voiture japonaise

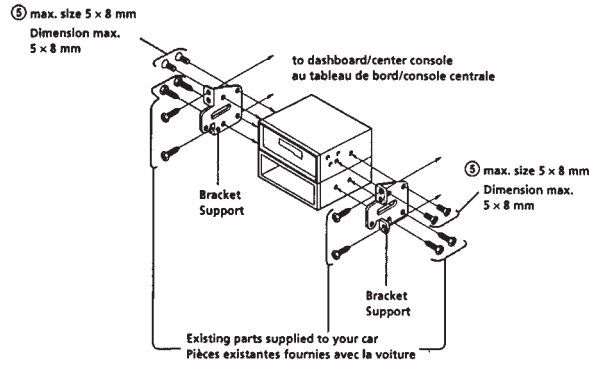
Si vous ne pouvez pas installer l'appareil dans une voiture japonaise, consultez votre revendeur Sony.

1

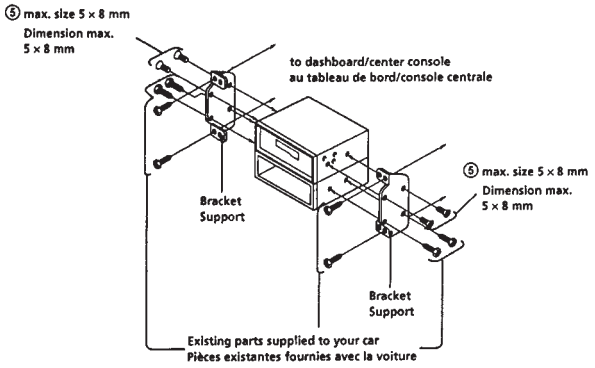


Cut all the claws from the unit with pincers or other suitable tool.
Coupez tous les onglets de l'appareil avec une pince ou un outil approprié.

2 TOYOTA



NISSAN



Notes

- *To prevent malfunction, install only with the supplied screws ⑤.*
- *If you cannot mount the unit in the lower tier after cutting off all claws, install it in the upper tier.*

Remarques

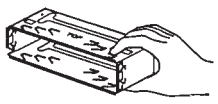
- *Pour éviter tout dysfonctionnement, utilisez uniquement les vis de montage fournies ⑤.*
- *Si vous ne pouvez pas monter l'appareil dans l'étage inférieur après avoir coupé tous les onglets, installez-le dans l'étage supérieur.*

Caution

Cautionary notice for handling the bracket ①.
Handle the bracket carefully to avoid injuring your fingers.

Attention

Remarque importante pour la manipulation du support ①.
Manipulez précautionneusement le support pour éviter de vous blesser aux doigts.



Connections

Caution

- This unit is designed for negative earth 12 V DC operation only.
- Before making connections, disconnect the earth terminal of the car battery to avoid short circuits.
- Connect the **yellow** and **red** power input leads only after all other leads have been connected.
- Be sure to connect the red power input lead to the positive 12 V power terminal which is energized when the ignition key is in the accessory position.
- **Run all earth wires to a common earth point.**
- Connect the yellow cord to a free car circuit rated higher than the unit's fuse rating. If you connect this unit in series with other stereo components, the car circuit they are connected to must be rated higher than the sum of the individual components' fuse rating. If there are no car circuits rated as high as the unit's fuse rating, connect the unit directly to the battery. If no car circuits are available for connecting this unit, connect the unit to a car circuit rated higher than the unit's fuse rating in such a way that if the unit blows its fuse, no other circuits will be cut off.

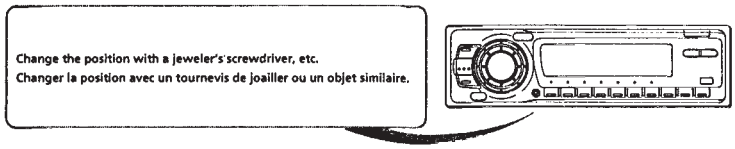
If your car has no accessory position on the ignition key switch

— POWER SELECT switch

The illumination on the front panel is factory set to be turned on even when the unit is not being played. However, this setting may cause some car battery wear **If your car has no accessory position on the ignition key switch. To avoid this battery wear, set the POWER SELECT switch located on the bottom of the unit to the ⓑ position, then press the reset button.** The illumination is reset to stay off while the unit is not being played.

Note

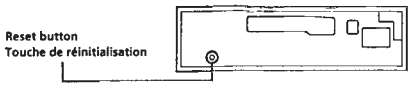
The caution alarm for the front panel is not activated when the POWER SELECT switch is set to the ⓑ position.


Change the position with a jeweler's screwdriver, etc.
Changer la position avec un tournevis de joaillier ou un objet similaire.

When you change the position of the switch, be sure to press the reset button after the connections are completed.

Reset Button

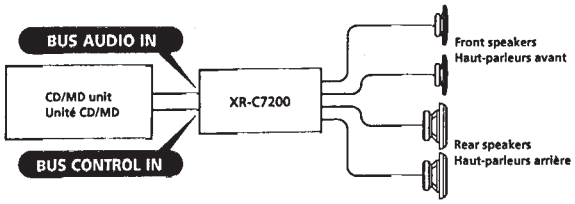
When the installation and connections are complete, be sure to press the reset button with a ball-point pen etc.



Connection Diagram

For connecting two or more changers, the source selector XA-C30 (optional) is necessary.

Example 1/Exemple 1



Connexions

Précautions

- Cet appareil est conçu pour fonctionner sur tension continue de 12 V avec masse négative.
- Avant d'effectuer les connexions, débrancher la borne de terre de la batterie du véhicule pour éviter tout court-circuit.
- Brancher les fils d'entrée d'alimentation **jaune** et **rouge** seulement après avoir terminé tous les autres branchements.
- Veiller à ne pas raccorder le fil rouge d'entrée d'alimentation à la borne positive de 12 V qui est alimentée quand la clé de contact est sur la position accessoires.
- **Rassembler tous les fils de terre en un point de masse commun.**
- Branchez le fil jaune sur un circuit libre de la voiture d'une intensité nominale supérieure à l'intensité nominale du fusible. Si vous raccordez cet appareil en série avec d'autres appareils stéréo, le circuit de la voiture auquel ils sont raccordés doit présenter une intensité nominale supérieur à la somme de l'intensité nominale des fusibles des différents appareils. Si la voiture ne comporte aucun circuit d'une intensité nominale supérieure à l'intensité nominale du fusible, branchez directement l'appareil sur la batterie. Si la voiture ne comporte aucun circuit disponible pour le raccordement de cet appareil, raccordez l'appareil à un circuit de la voiture dont l'intensité nominale est supérieure à l'intensité nominale du fusible de telle sorte que si l'appareil grille son fusible, aucun autre circuit ne sera coupé.

Si l'appareil est utilisé dans une voiture dont la clé de contact n'a pas de position accessoires

— Interrupteur POWER SELECT

L'éclairage du panneau avant est réglé en usine de manière à s'allumer même quand l'appareil ne fonctionne pas. Cependant, ce réglage risque d'épuiser la batterie **si l'appareil est utilisé dans une voiture dont la clé de contact ne possède pas de position accessoires.** Pour éviter d'épuiser la batterie, régler l'interrupteur **POWER sur le socle de l'appareil sur la position ⓑ, puis appuyer sur la touche de réinitialisation.** L'éclairage est réglé pour rester éteint quand l'appareil n'est pas utilisé.

Remarque

Quand l'interrupteur POWER SELECT est réglé sur la position ⓑ, l'avertisseur du panneau avant ne fonctionne pas.

Si vous changez la position de l'interrupteur, n'oubliez pas d'appuyer sur les touche de réinitialisation après avoir terminé tous les raccordements.

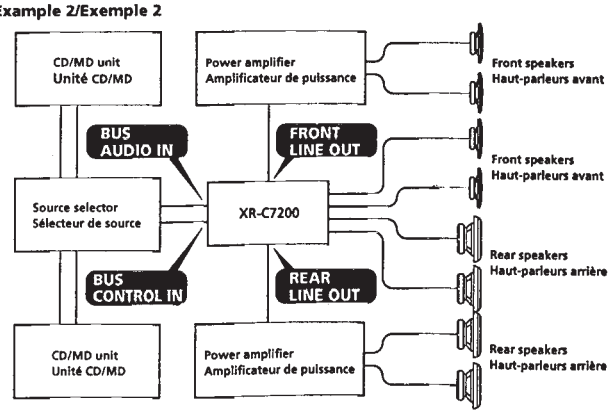
Touche de réinitialisation

Quand l'installation et les connexions sont terminées, appuyer sur la touche de réinitialisation avec un stylo bille ou un objet pointu.

Schémas de connexion

Dans le cas du raccordement de deux changeurs ou plus, le sélecteur de source XR-C30 (optionnel) est indispensable.

Example 2/Exemple 2

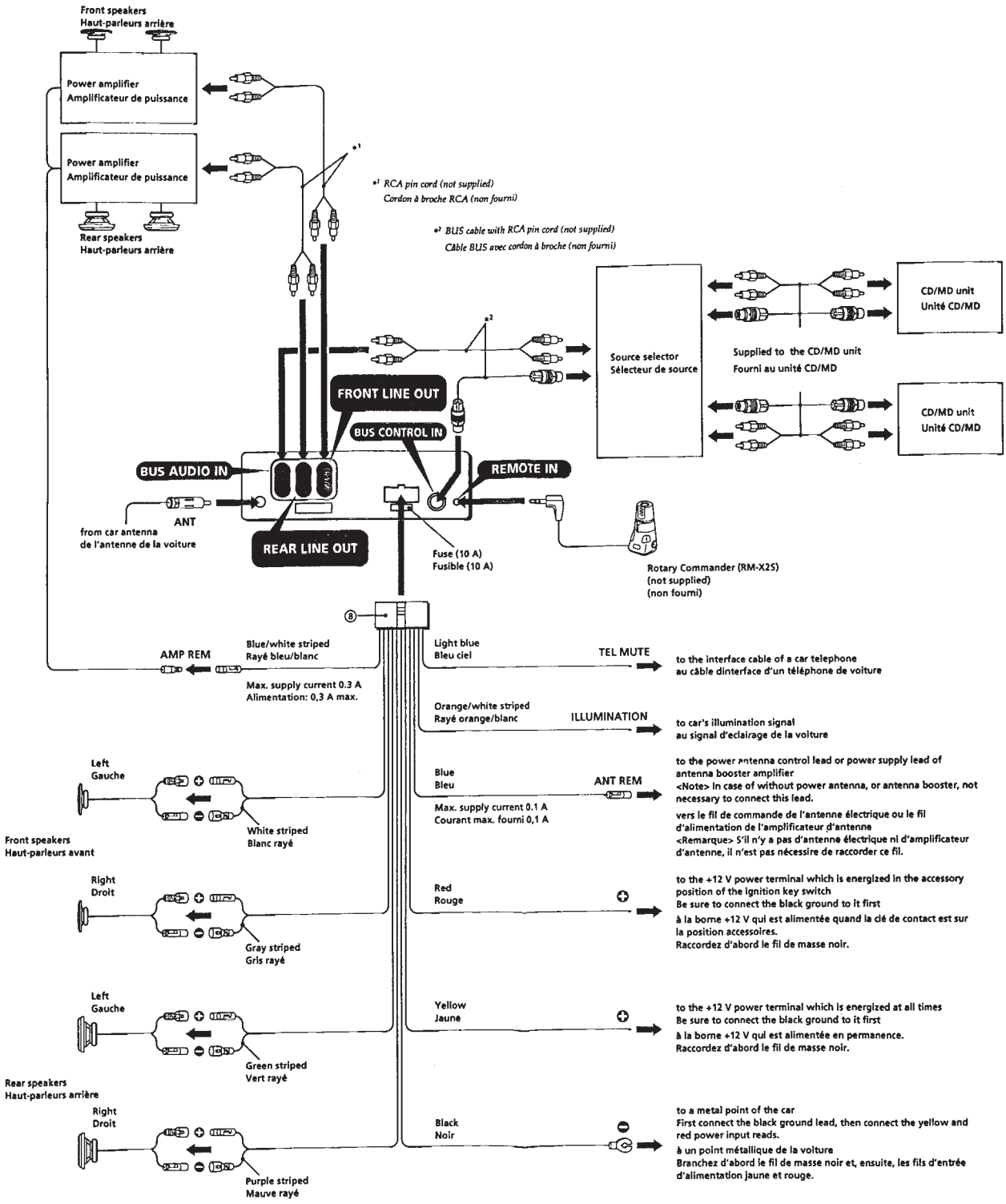


Connection example

Exemple connexions

To AMP REMOTE IN of an optional power amplifier.
This connection is only for amplifiers. Connecting any other system may damage the unit.

Pour effectuer le raccordement à AMP REMOTE IN de l'amplificateur de puissance en option.
Cette connexion s'applique uniquement aux amplificateurs. Le branchement de tout autre système risque d'endommager l'appareil.


Front speakers
Haut-parleurs arrière
Power amplifier
Amplificateur de puissance
Power amplifier
Amplificateur de puissance
Rear speakers
Haut-parleurs arrière
*1
*1 RCA pin cord (not supplied)
Cordon à broche RCA (non fourni)
*2 BLIS cable with RCA pin cord (not supplied)
Câble BLIS avec cordon à broche (non fourni)
*2
Source selector
Sélecteur de source
CD/MD unit
Unité CD/MD
Supplied to the CD/MD unit
Fourni au unité CD/MD
CD/MD unit
Unité CD/MD
FRONT LINE OUT
BUS CONTROL IN
BUS AUDIO IN
REMOTE IN
ANT
from car antenna
de l'antenne de la voiture
REAR LINE OUT
Fuse (10 A)
Fusible (10 A)
Rotary Commander (RM-X2S)
(not supplied)
(non fourni)
AMP REM
Blue/white striped
Rayé bleu/blanc
Max. supply current 0.3 A
Alimentation: 0,3 A max.
Light blue
Bleu ciel
TEL MUTE
to the interface cable of a car telephone
au câble dinterface d'un téléphone de voiture
Orange/white striped
Rayé orange/blanc
ILLUMINATION
to car's illumination signal
au signal d'eclairage de la voiture
Left
Gauche
Blue
Bleu
ANT REM
to the power antenna control lead or power supply lead of antenna booster amplifier
<Note> In case of without power antenna, or antenna booster, not necessary to connect this lead.
vers le fil de commande de l'antenne électrique ou le fil d'alimentation de l'amplificateur d'antenne
<Remarque> S'il n'y a pas d'antenne électrique ni d'amplificateur d'antenne, il n'est pas nécessire de raccorder ce fil.
Max. supply current 0.1 A
Courant max. fourni 0,1 A
White striped
Blanc rayé
Front speakers
Haut-parleurs avant
Right
Droit
Red
Rouge
to the +12 V power terminal which is energized in the accessory position of the ignition key switch
Be sure to connect the black ground to it first
à la borne +12 V qui est alimentée quand la clé de contact est sur la position accessoires.
Raccordez d'abord le fil de masse noir.
Gray striped
Gris rayé
Left
Gauche
Yellow
Jaune
to the +12 V power terminal which is energized at all times
Be sure to connect the black ground to it first
à la borne +12 V qui est alimentée en permanence.
Raccordez d'abord le fil de masse noir.
Green striped
Vert rayé
Rear speakers
Haut-parleurs arrière
Right
Droit
Black
Noir
to a metal point of the car
First connect the black ground lead, then connect the yellow and red power input reads.
à un point métallique de la voiture
Branchez d'abord le fil de masse noir et, ensuite, les fils d'entrée d'alimentation jaune et rouge.
Purple striped
Mauve rayé

Notes on the control leads
- *The power antenna control lead (blue) supplies +12 V DC when you turn on the tuner or when you activate the ATA (Automatic Tuner Activation) Function.*
- *A power antenna without relay box cannot be used with this unit.*

Memory hold connection
When the yellow power input lead is connected, power will always be supplied to the memory circuit even when the ignition key is turned off.

Notes on speaker connection
- *Before connecting the speakers, turn the unit off.*
- *Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities. Otherwise, the speakers may be damaged.*
- *Do not connect the terminals of the speaker system to the car chassis, and do not connect the terminals of the right speaker with those of the left speaker.*
- *Do not attempt to connect the speakers in parallel.*
- *Do not connect any active speakers (with built-in amplifiers) to the speaker terminals of the unit. Doing so may damage the active speakers. Therefore, be sure to connect passive speakers to these terminals.*

Remarques sur les fils de contrôle
- *Le fil de contrôle (bleu) de l'antenne électrique fournit un courant continu de +12 V quand le tuner est allumé ou quand la fonction ATA (Activation automatique du tuner) est mise en service.*
- *Une antenne électrique sans boîtier de relais ne peut pas être utilisée avec cet appareil.*

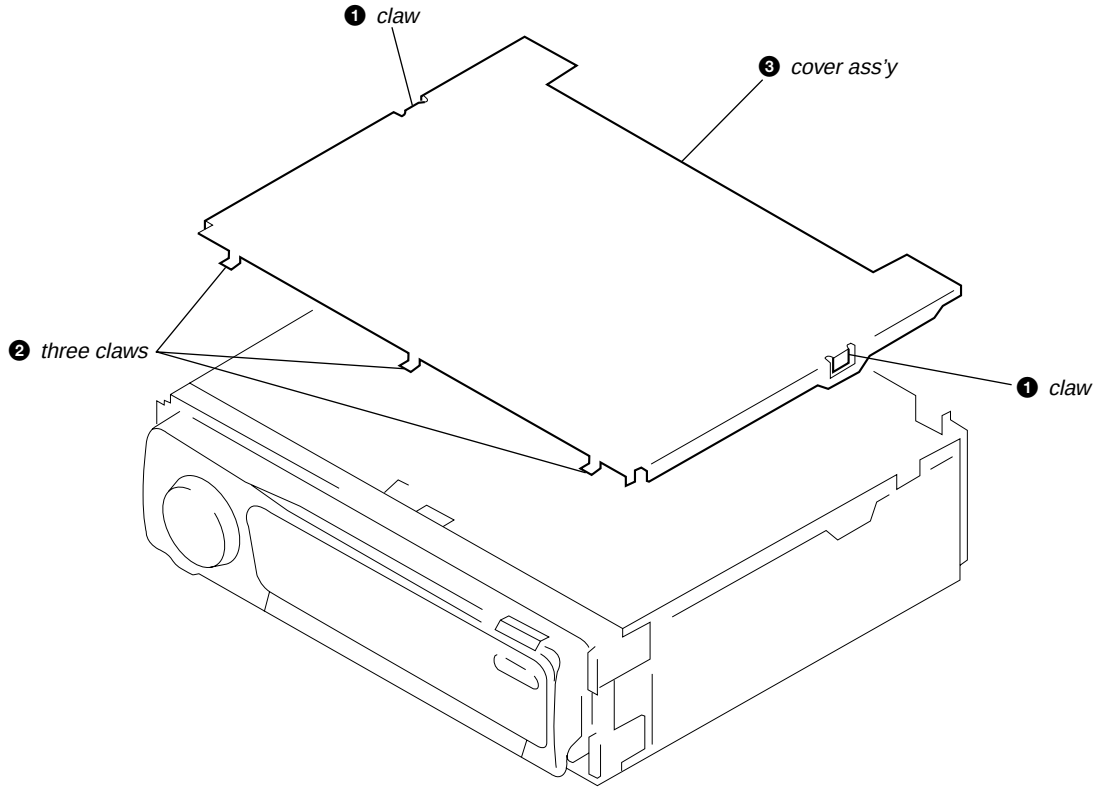
Connexion pour la conservation de la mémoire
Lorsque le fil d'entrée d'alimentation jaune est connecté, le circuit de la mémoire est alimenté en permanence même si la clé de contact est sur la position d'arrêt.

Remarques sur la connexion des haut-parleurs
- *Avant de raccorder les haut-parleurs, mettre l'appareil hors tension.*
- *Utiliser des haut-parleurs ayant une impédance de 4 à 8 ohms et une capacité adéquate sous peine de les endommager.*
- *Ne pas raccorder les bornes du système de haut-parleurs au châssis de la voiture et ne pas connecter les bornes du haut-parleur droit à celles du haut-parleur gauche.*
- *Ne pas tenter de raccorder les haut-parleurs en parallèle.*
- *Ne pas raccorder des haut-parleurs actifs (avec amplificateurs intégrés) aux bornes de haut-parleur de l'appareil sous peine de les endommager. Veiller à raccorder des haut-parleurs passifs à ces bornes.*

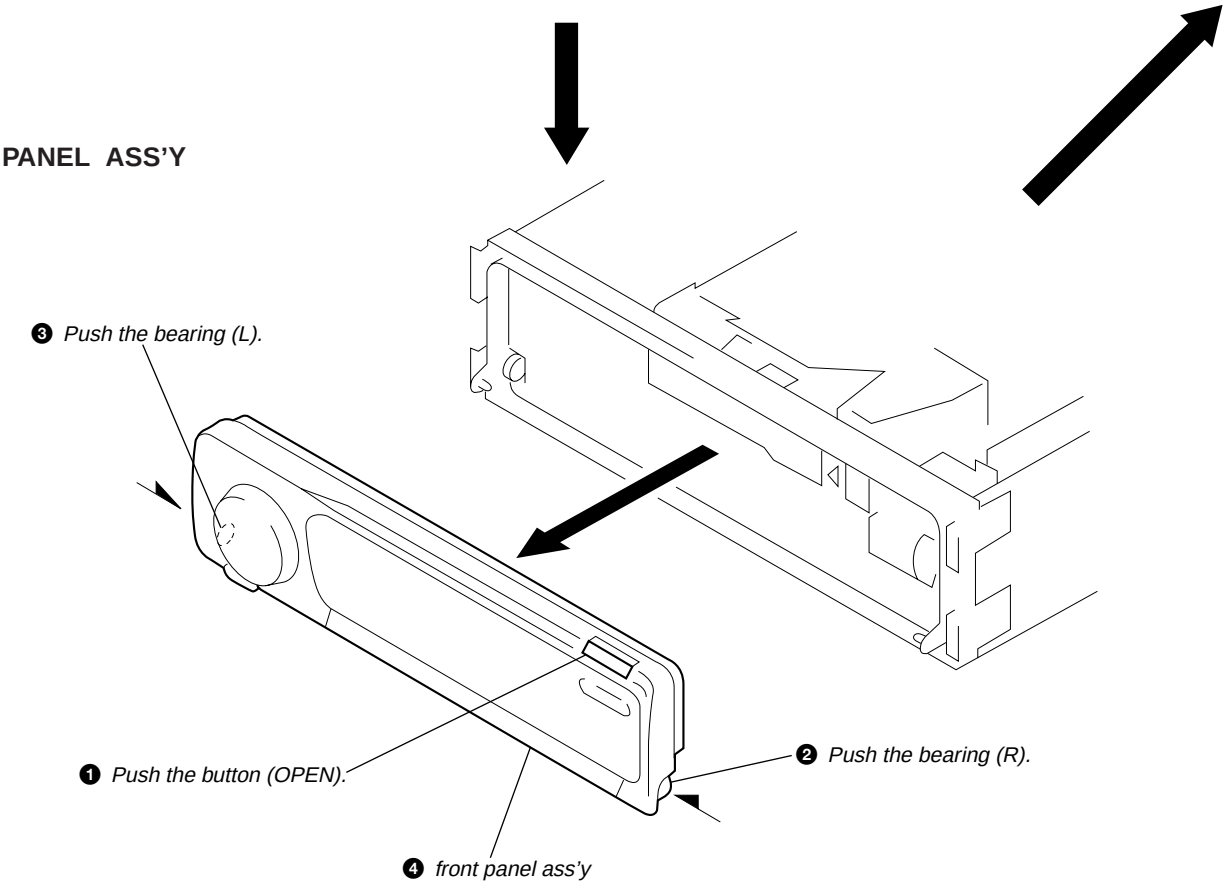
SECTION 2
DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

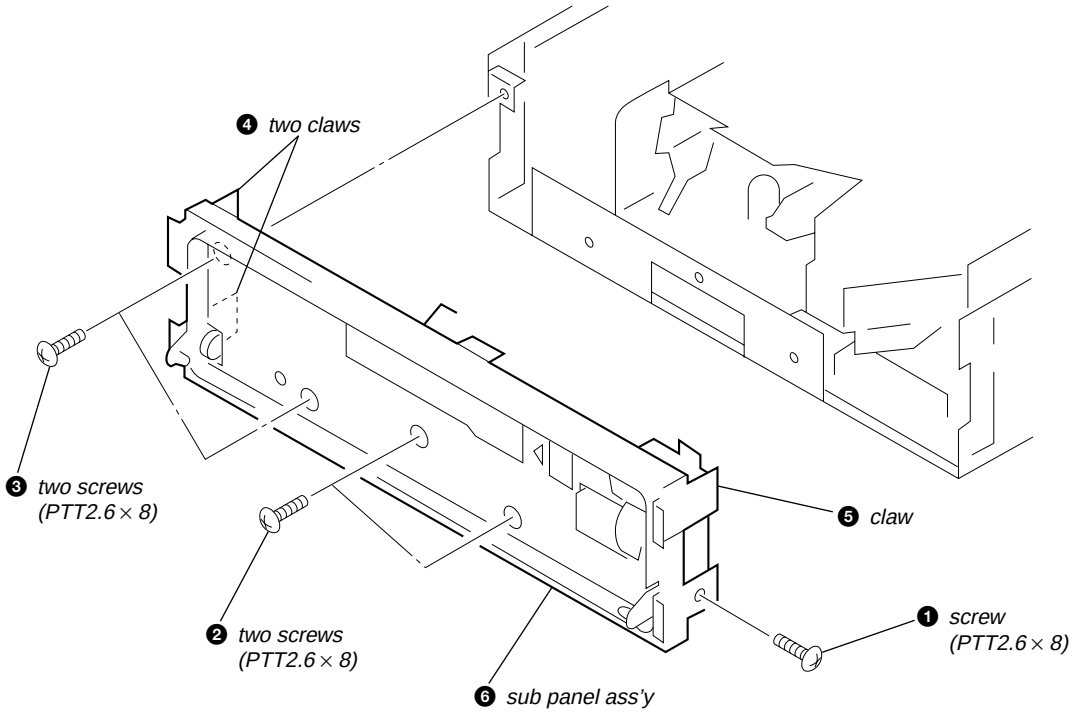
COVER ASS'Y



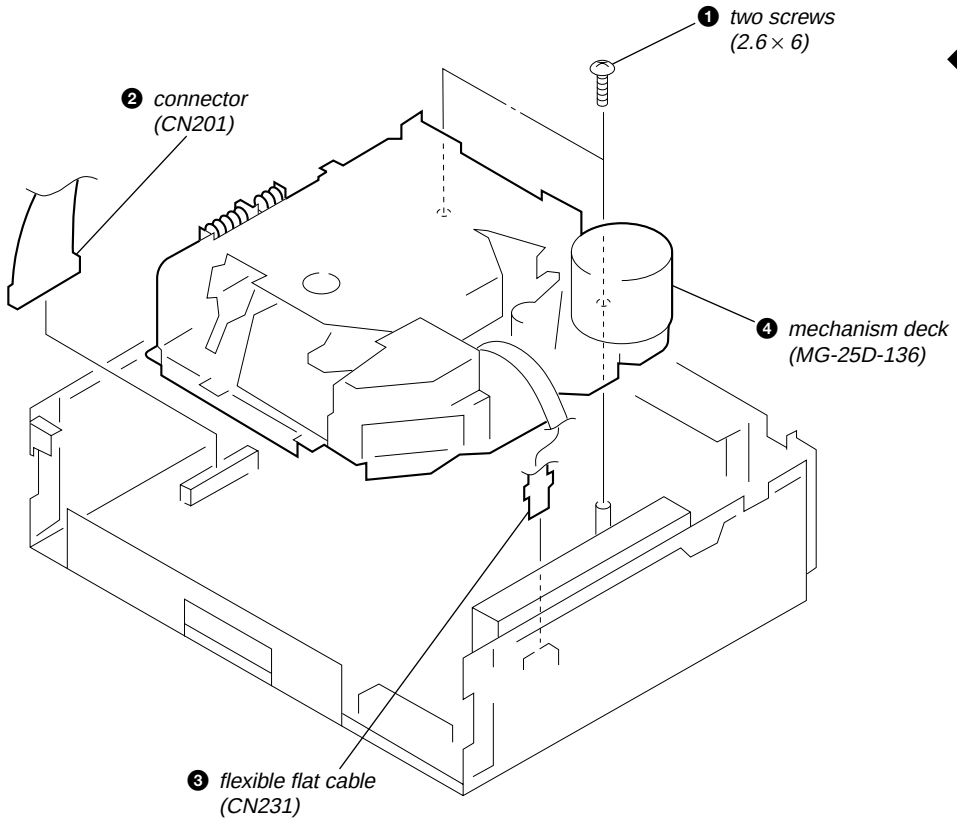
FRONT PANEL ASS'Y



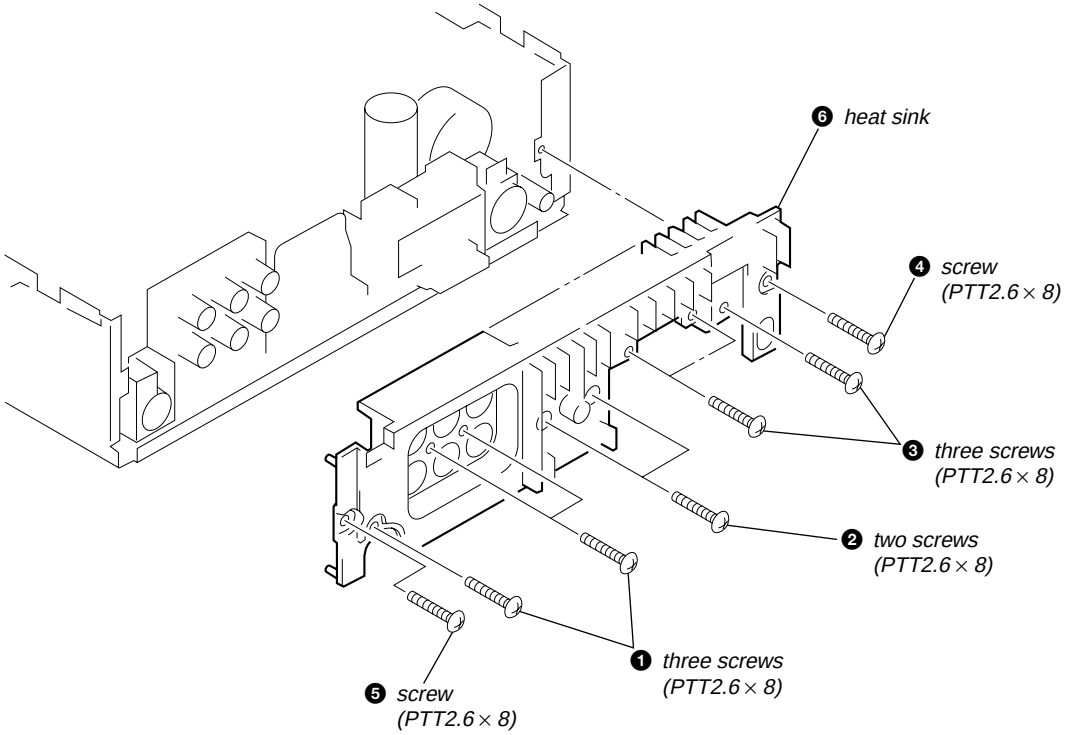
SUB PANEL ASS'Y



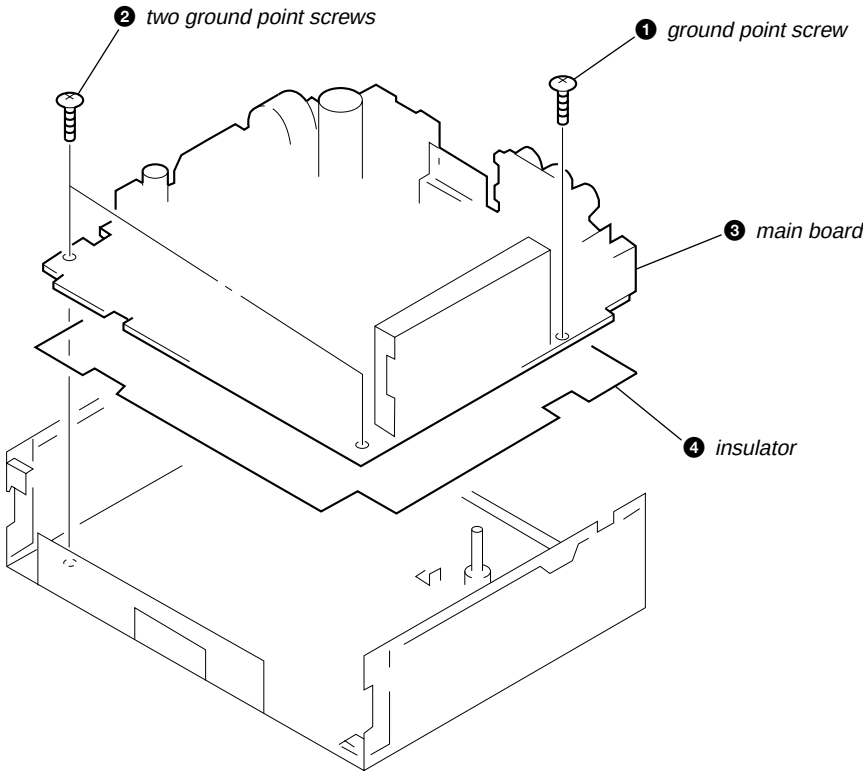
MECHANISM DECK (MG-25D-136)



HEAT SINK



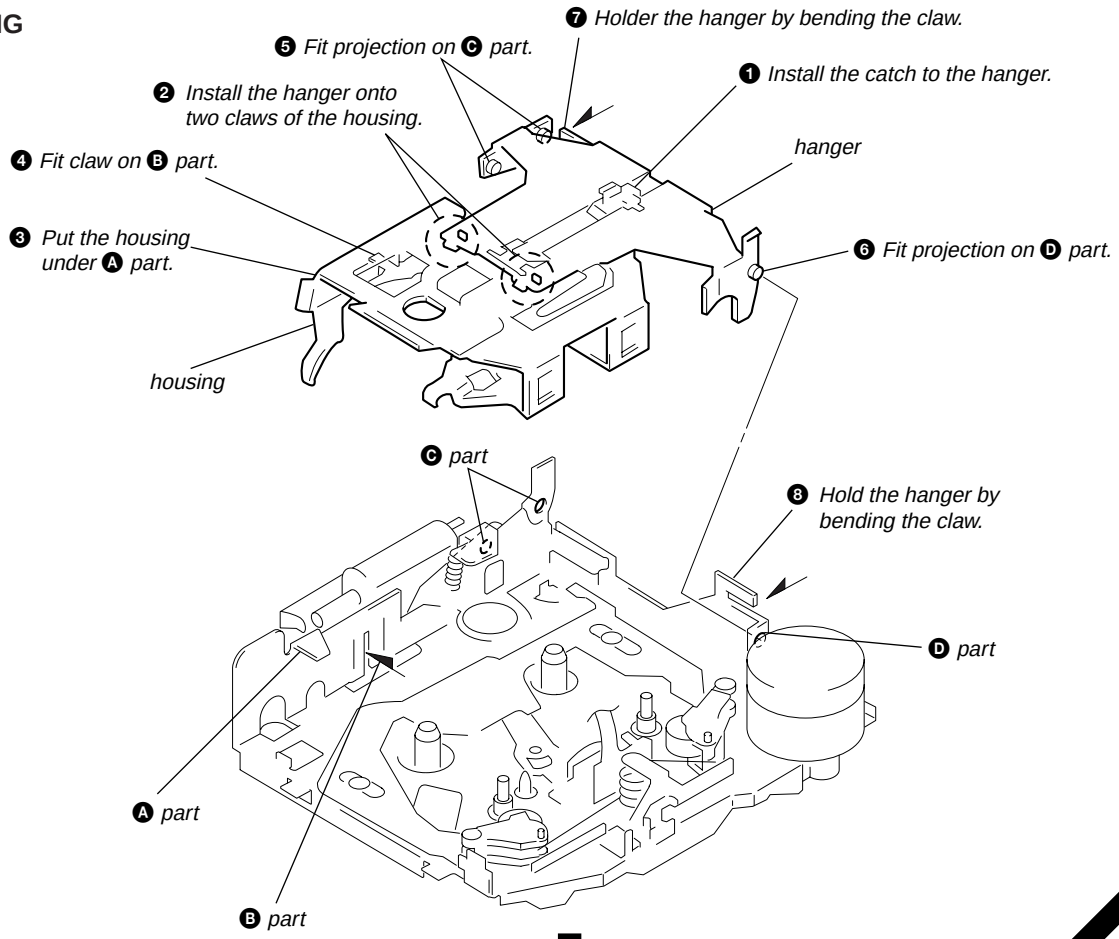
MAIN BOARD



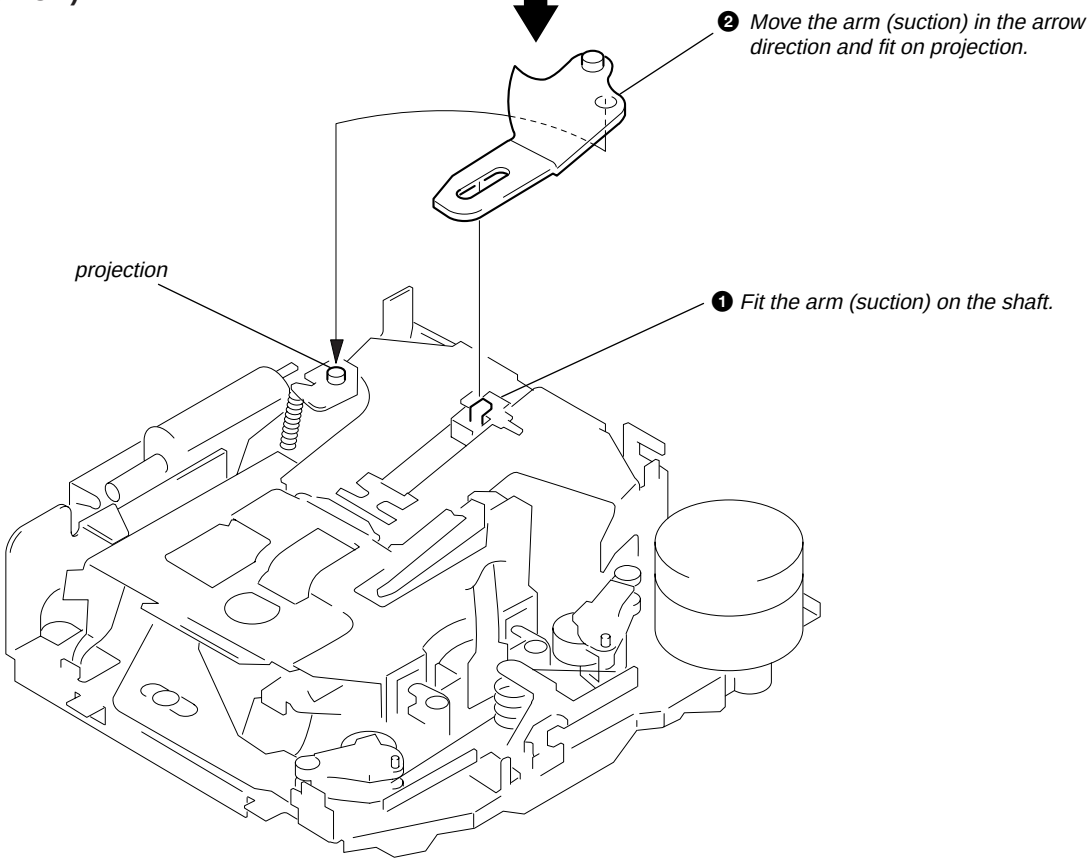
SECTION 3
ASSEMBLY OF MECHANISM DECK

Note: Follow the assembly procedure in the numerical order given.

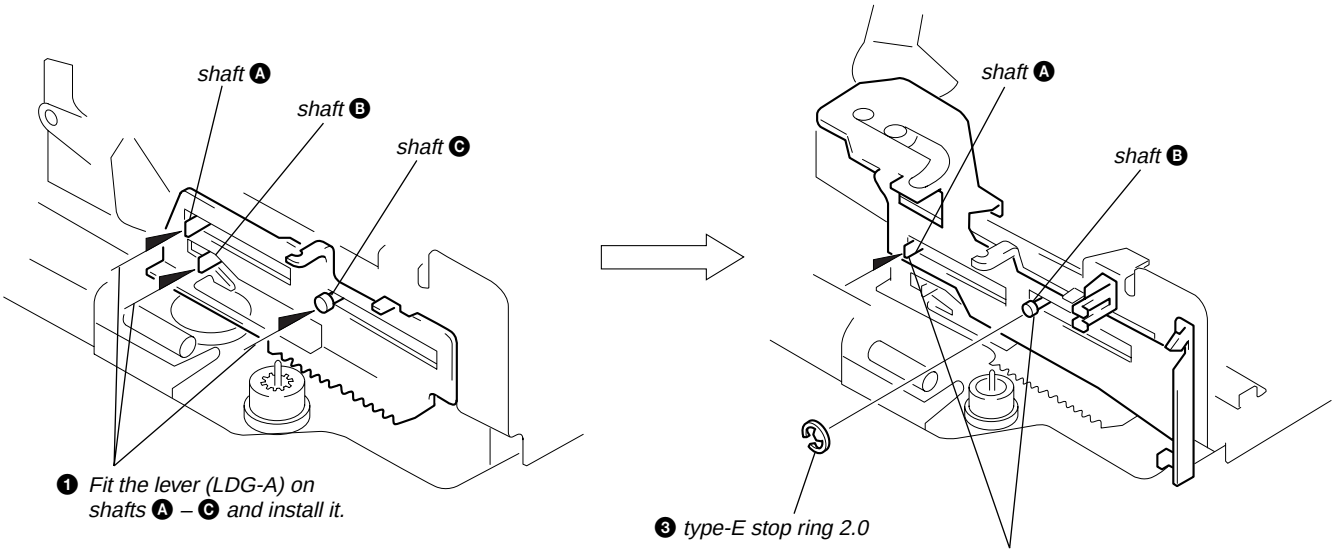
HOUSING


❼ Holder the hanger by bending the claw.
❺ Fit projection on Ⓒ part.
❶ Install the catch to the hanger.
❷ Install the hanger onto two claws of the housing.
hanger
❹ Fit claw on Ⓑ part.
❸ Put the housing under Ⓐ part.
❻ Fit projection on Ⓓ part.
housing
Ⓒ part
❽ Hold the hanger by bending the claw.
Ⓓ part
Ⓐ part
Ⓑ part

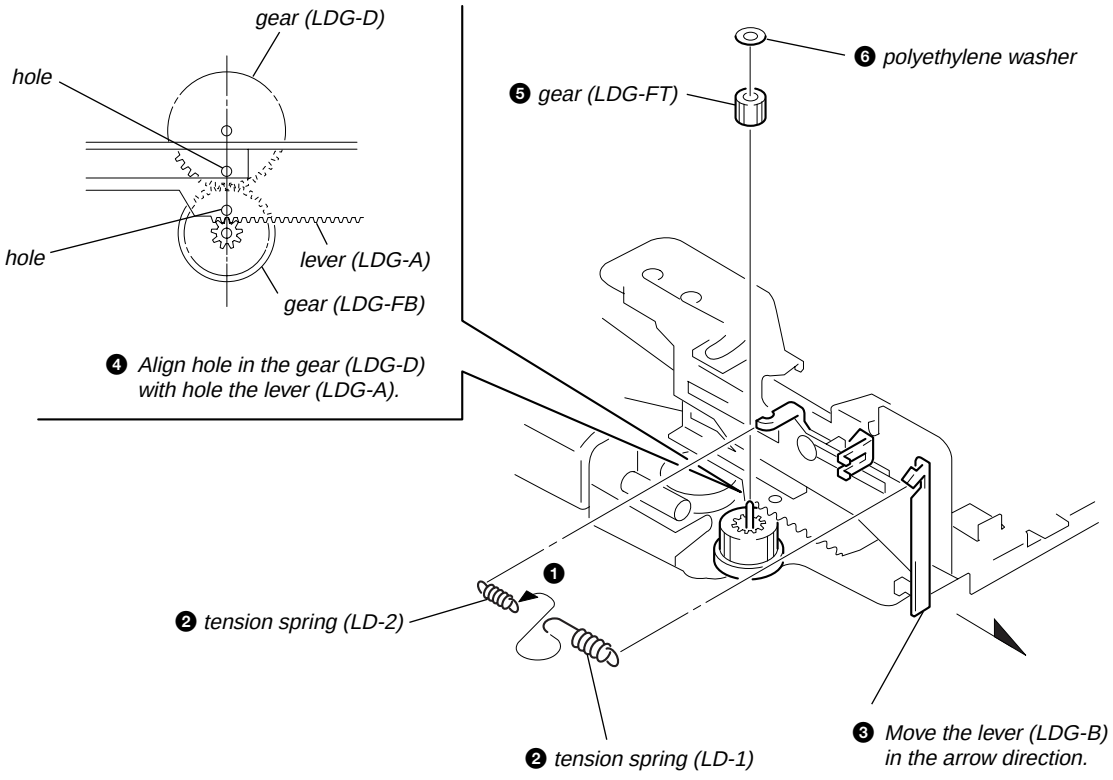
ARM (SUCTION)



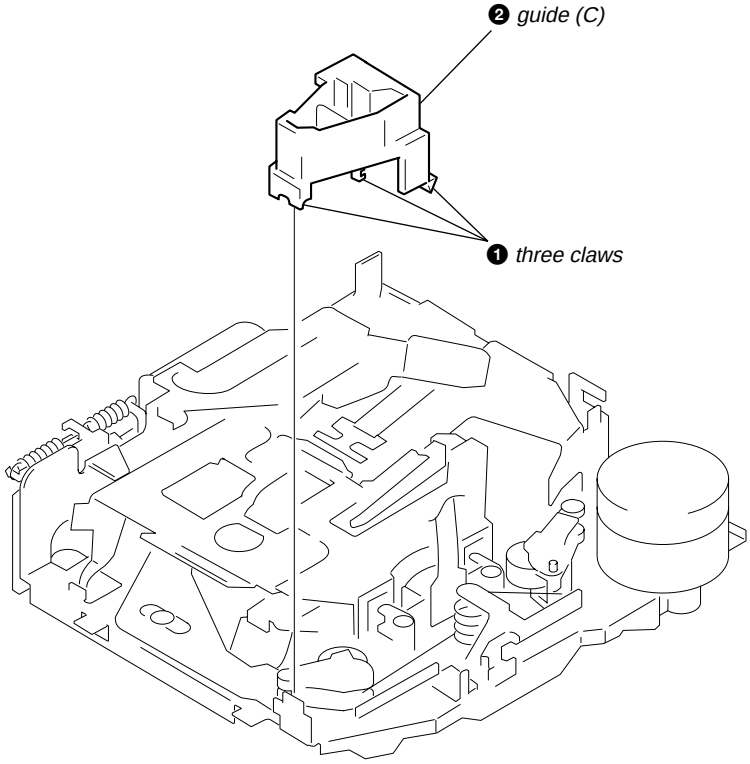
LEVER (LDG-A) / (LDG-B)


shaft Ⓐ
shaft Ⓑ
shaft Ⓒ
❶ Fit the lever (LDG-A) on shafts Ⓐ – Ⓒ and install it.
shaft Ⓐ
shaft Ⓑ
❸ type-E stop ring 2.0
❷ Fit the lever (LDG-B) on shafts Ⓐ and Ⓑ and install it.

GEAR (LDG-FT)



GUIDE (C)



SECTION 4
MECHANICAL ADJUSTMENTS

1. Clean the following parts with a denatured-alcohol-moistened swab:
   playback head, pinch roller, rubber belt, capstan, idler
2. Demagnetize the playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the power supply voltage unless otherwise noted.

• Torque Measurement

Mode	Torque Meter	Meter Reading
Forward	CQ-102C	30 - 65 g•cm (0.42 - 0.90 oz•inch)
Forward Back Tension	CQ-102C	0.5 - 4.5g•cm (0.01 - 0.06 oz•inch)
Reverse	CQ-102RC	30 - 65 g•cm (0.42 - 0.90 oz•inch)
Reverse Back Tension	CQ-102RC	0.5 - 4.5g•cm (0.01 - 0.06 oz•inch)
FF, REW	CQ-201B	60 - 200 g•cm (0.83 - 2.78 oz•inch)

• Tape Tension Measurement

Mode	Tension Meter	Meter Reading
Forward	CQ-403A	more than 90 g (more than 3.18 oz)
Reverse	CQ-403R	more than 90 g (more than 3.18 oz)

SECTION 5
ELECTRICAL ADJUSTMENTS

TEST MODE

This set have the test mode function. In the test mode, FM Auto Scan/Stop Level and AM (MW) Auto Scan/Stop Level adjustments can be performed easier than it in ordinary procedure.

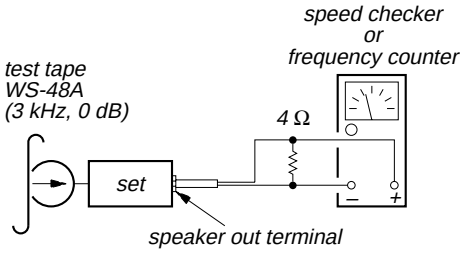
<Set the Test Mode>
1. Set the "power select" switch (S501) is "A (ON)" position.
2. Turn ON the regulated power supply. (All LEDs on the set lights up, and the clock is displayed.)
   Note: Press the [OFF] button, if the clock is not displayed.
3. Push the preset [4] button.
4. Push the preset [5] button.
5. Press the preset [1] button for more than two seconds.
6. Then the display indicates all lights, the test mode is set.

<Release the Test mode>
1. Push the [OFF] button.
2. Return the "power select" switch (S501) to initially set position.

See the adjustment location from on page 18 for the adjustment.

TAPE DECK SECTION | 0 dB=0.775 V

Tape Speed Adjustment
Setting:



Procedure:
1. Put the set into the FWD PB mode.
2. Adjust adjustment resistor for inside capstan motor so that the reading on the speed checker or frequency counter becomes in specification.

Specification: Constant speed

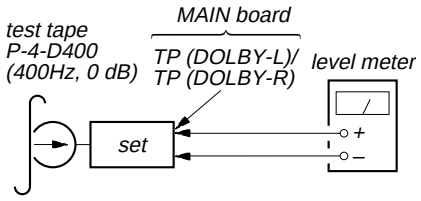
Speed checker	Frequency counter
–1.5 to +2.5%	2,955 to 3,075 Hz

Adjustment Location: See page 18.

Dolby Level Adjustment

Setting:

SHIFT button	: ON (light up SET UP and PLAY MODE)
Preset 3 (PLAY MODE) button	: NR off
SOUND (BAS) button	: Center
SOUND (TRE) button	: Center
SOUND (BAL) button	: Center
SOUND (FAD) button	: Center
SOUND (VOL) button	: Maximum



Procedure:

1. Put the set into the FWD PB mode.
2. Adjust RV251 (L-CH) and RV261 (R-CH) so that the level meter reading is –6±0.5 dB (0.37 to 0.41 V).

Adjustment Location: See page 18.

TUNER SECTION

0 dB=1µV

Cautions during repair

When the tuner unit is defective, replace it by a new one because its internal block is difficult to repair.

Note: Adjust the tuner section in the sequence shown below.

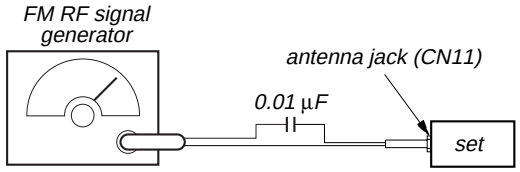
1. FM Auto Scan/Stop Level Adjustment
2. FM Noise Focus Adjustment (E model)
3. FM Stereo Separation Adjustment
4. FM Signal Meter Adjustment
5. AM (MW) Auto Scan/Stop Level Adjustment

FM Auto Scan/Stop Level Adjustment

Setting:

SOURCE button : FM

FREQUENCY SELECT switch (E model): FM 200 k

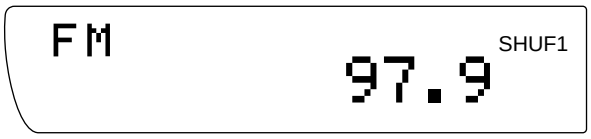


Carrier frequency : 97.9 MHz
Output level : 22 dB (12.6 µV)
Mode : mono
Modulation : 1 kHz, 22.5 kHz deviation (30%)

Procedure:

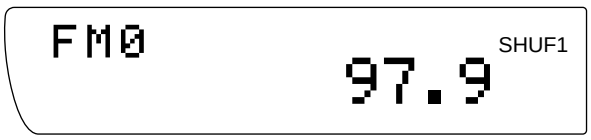
1. Set to the test mode. (See page 15.)
2. Push the SOURCE button and set to FM.

Display



3. Adjust with the volume RV2 on TU11 so that the "FM" indication turns to "FM0" indication on the display window. But, in case of already indicated "FM0", turn the RV2 so that put out light "0" indication and adjustment.

Display

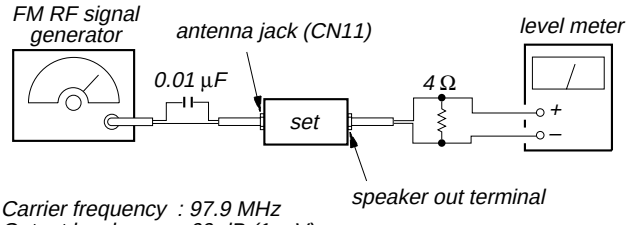


Adjustment Location: See page 18.

FM Noise Focus Adjustment (E model)

Setting:

SOURCE button : FM
FREQUENCY SELECT switch : FM 200 k



Carrier frequency : 97.9 MHz
Output level : 60 dB (1 mV)
Mode : stereo
Modulation : 1 kHz, 75 kHz deviation (100%)

Procedure:

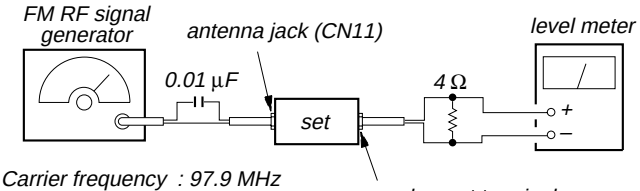
1. Tuner the 97.9 MHz.
2. The then output level is supposing that 0 dB.
3. Adjust with the volume RV3 on TU11 so that the output level is –32 ± 2 dB then signal generator input set to –20 dB.

Adjustment Location: See page 18.

FM Stereo Separation Adjustment

Setting:

SOURCE button : FM
FREQUENCY SELECT switch (E model): FM 200 k



Carrier frequency : 97.9 MHz
Output level : 70 dB (3.2 mV)
Mode : stereo
Modulation : main : 1 kHz, 33.75 kHz deviation (45%)
sub : 1 kHz, 33.75 kHz deviation (45%)
19 kHz pilot: 7.5 kHz deviation (10%)

Procedure:

FM Stereo signal generator output channel	Level meter connection	Level meter reading (dB)
L-CH	L-CH	Ⓐ
R-CH	L-CH	Ⓑ Adjust RV4 on TU11 for minimum reading.
R-CH	R-CH	Ⓒ
L-CH	R-CH	Ⓓ Adjust RV4 on TU11 for minimum reading.

L-CH Stereo separation: Ⓐ-Ⓑ
R-CH Stereo separation: Ⓒ-Ⓓ
The separations of both channels should be equal.

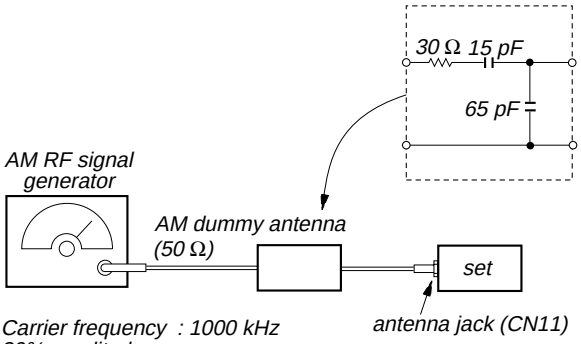
Specification: Separation more than 28 dB

Adjustment Location: See page 18.

AM (MW) Auto Scan/Stop Level Adjustment

Setting:

SOURCE → MODE button : AM (US model)
: MW (E model)
FREQUENCY SELECT switch (E model): MW 10 k

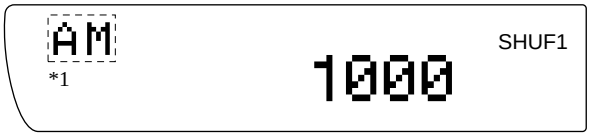


Carrier frequency : 1000 kHz
30% amplitude modulation by 1 kHz signal
Output level : 33 dB (44.7 µV)

Procedure:

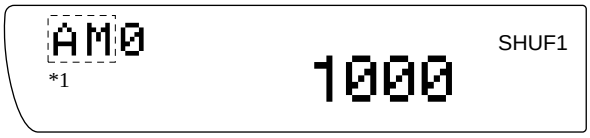
1. Set to the test mode. (See page 15.)
2. Push the SOURCE button and set to FM.
3. Push the MODE button and set to AM (US model) or MW (E model).

Display



4. Adjust with the volume RV1 on TU11 so that the “AM” (US model) or “MW” (E model) indication turns to “AM0” (US model) or “MW0” (E model) indication on the display window. But, in case of already indicated “AM0” (US model) or “MW0” (E model), turn the RV1 so that put out light “0” indication and adjustment.

Display

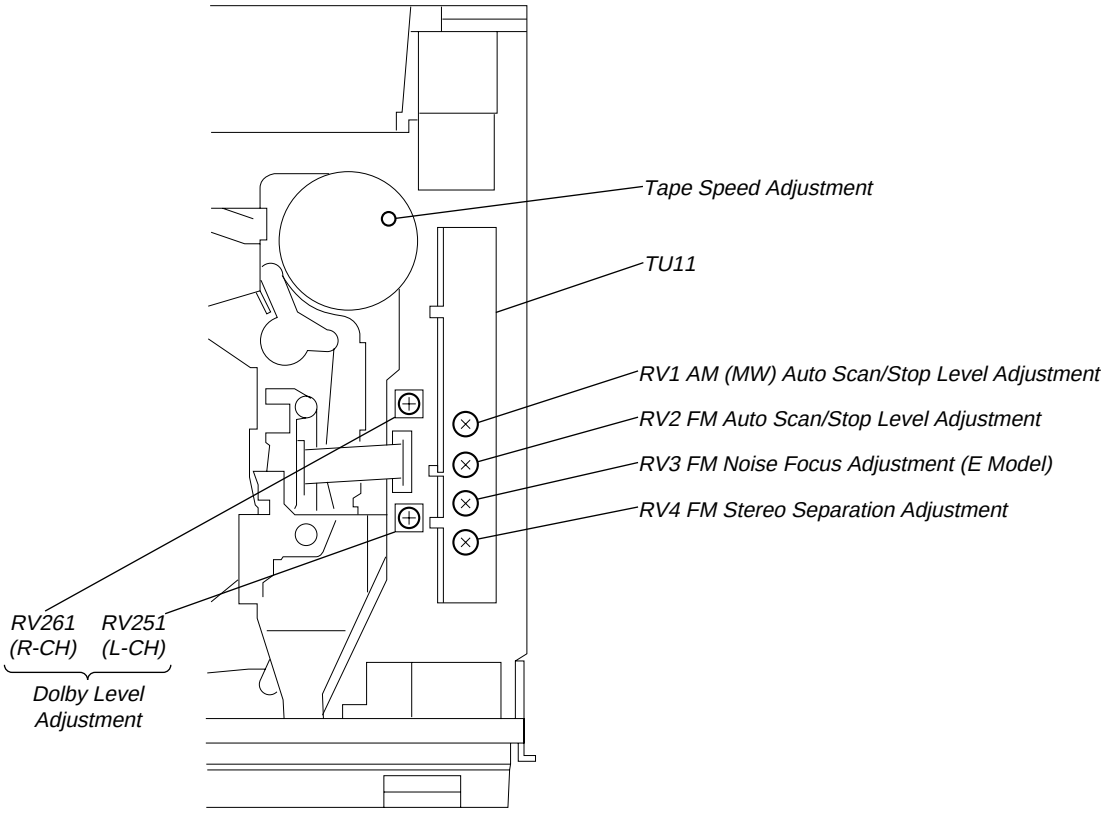


*1: E model has the “MW” displayed.

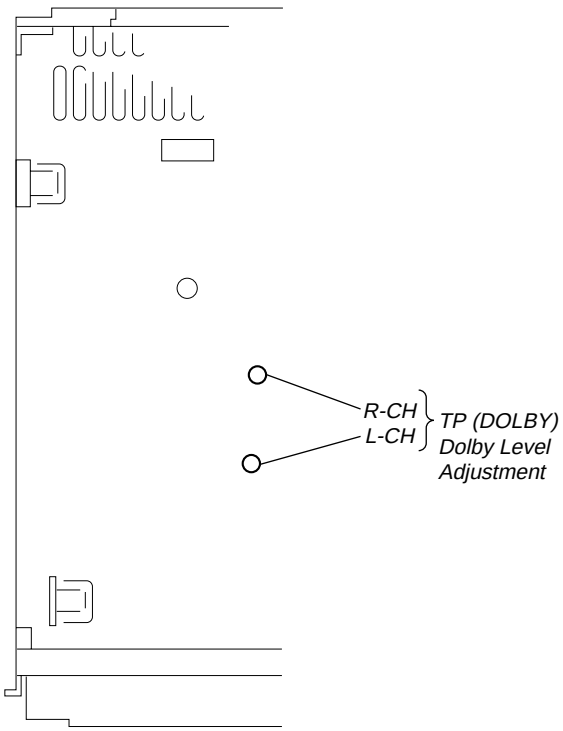
Adjustment Location: See page 18.

Adjustment Location:

– SET UPPER VIEW –


Tape Speed Adjustment
TU11
RV1 AM (MW) Auto Scan/Stop Level Adjustment
RV2 FM Auto Scan/Stop Level Adjustment
RV3 FM Noise Focus Adjustment (E Model)
RV4 FM Stereo Separation Adjustment
RV261 (R-CH)
RV251 (L-CH)
Dolby Level Adjustment

– SET BOTTOM VIEW –



SECTION 6
DIAGRAMS

• **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
D11	E-13	D953	D-4
D71	F-14		
D72	D-13	IC91	E-10
D202	F-21	IC201	G-20
D203	F-21	IC231	G-8
D521	E-3	IC301	D-8
D554	I-20	IC302	D-15
D556	E-2	IC501	G-4
D557	E-2	IC551	H-20
D561	B-21	IC552	I-20
D562	C-21	IC571	D-2
D563	C-22	IC601	E-21
D564	I-8	IC701	B-17
D571	D-3		
D572	D-3	Q71	F-9
D573	C-20	Q72	C-13
D574	C-21	Q73	C-13
D575	D-2	Q101	H-6
D576	E-2	Q201	G-21
D581	E-4	Q202	G-21
D582	E-4	Q203	F-2
D591	E-4	Q204	H-5
D592	E-4	Q205	H-5
D651	I-21	Q331	B-15
D652	H-21	Q341	B-14
D661	I-7	Q431	B-15
D662	I-7	Q441	B-14
D664	I-7	Q556	I-20
D667	I-7	Q561	I-8
D669	I-7	Q562	I-8
D670	I-7	Q572	D-2
D671	I-7	Q573	E-2
D701	D-6	Q581	E-4
D702	A-18	Q591	E-4
D703	A-16	Q651	I-2
D704	D-17	Q652	H-21
D705	D-6	Q653	I-1
D706	A-17	Q654	H-21
D707	D-17	Q656	H-20
D708	D-17	Q657	H-20
D901	C-20	Q701	C-5
D923	C-4	Q951	D-5
D924	C-4	D952	D-5
D951	D-5	D953	C-5

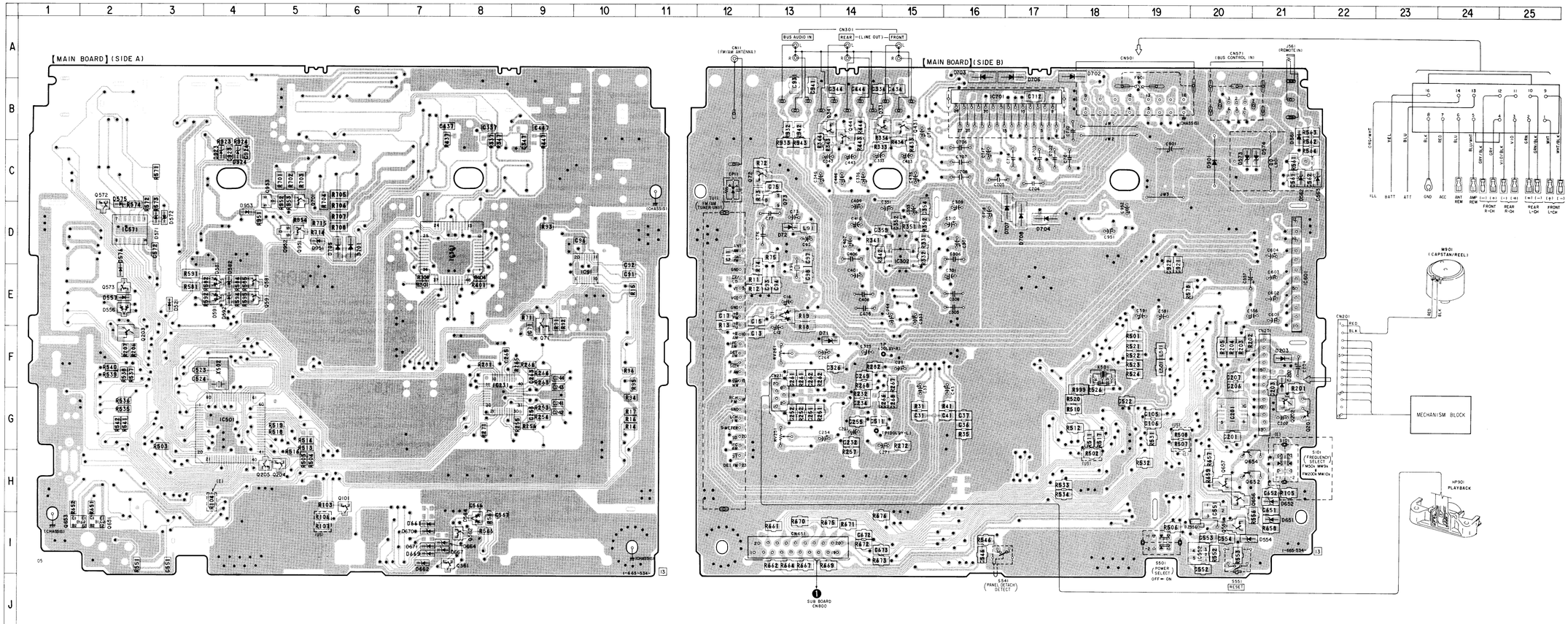
Note on Printed Wiring Board:

- ⟜: parts extracted from the component side.
- ●: Through hole.
- △: internal component.
- ▒: Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

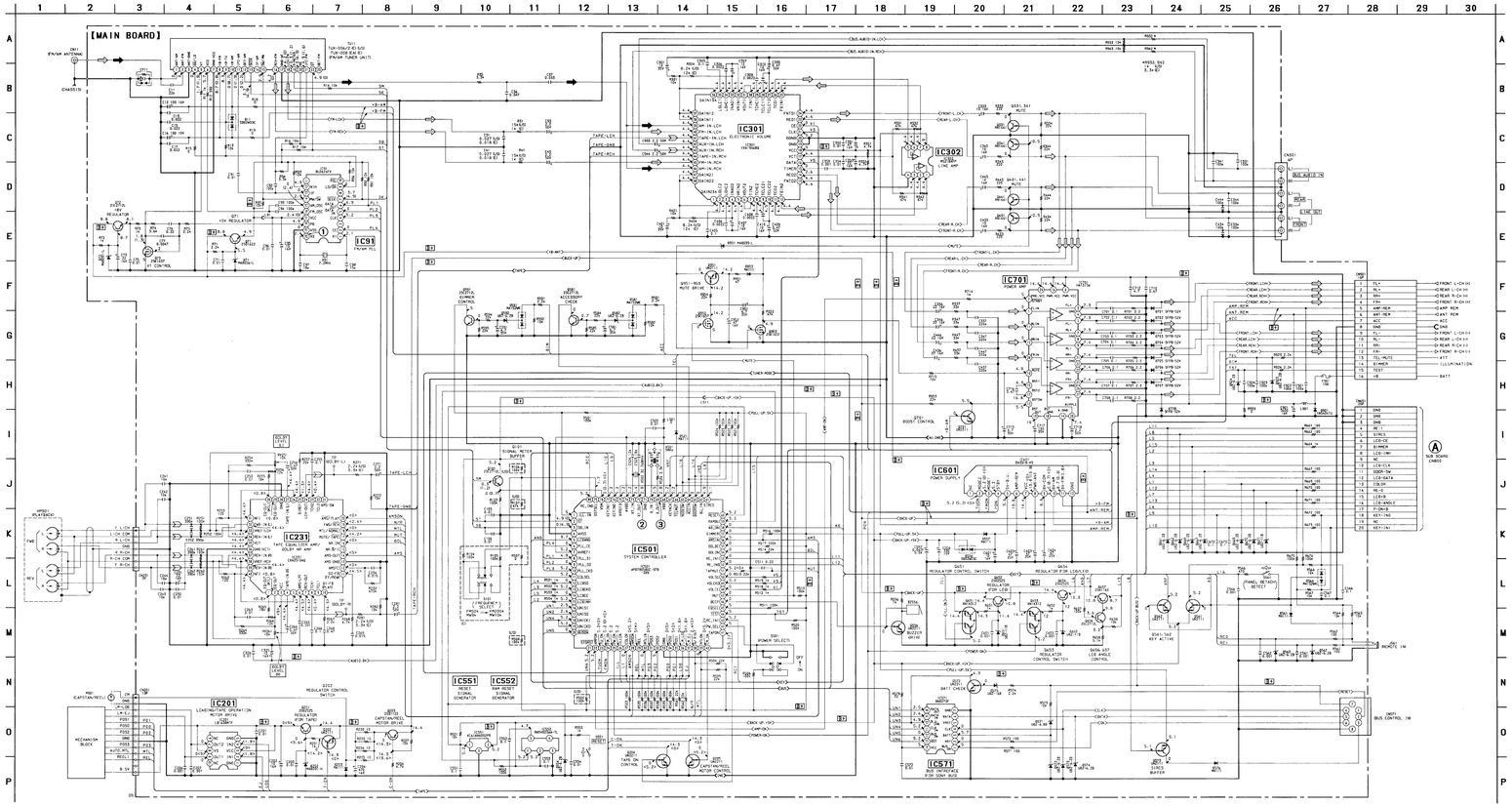
Caution:	
Pattern face side: (Side B)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Side A)	Parts on the parts face side seen from the parts face are indicated.

6-1. PRINTED WIRING BOARD – MAIN Section –



6-2. SCHEMATIC DIAGRAM – MAIN Section –

• See page 33 for IC Block Diagrams, and see page 35 for IC Pin Function Description.

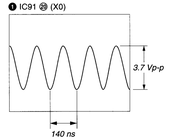


Note on Schematic Diagram:

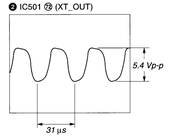
- All capacitors are in µF unless otherwise noted. pF: µµF
  50 WV or less are not indicated except for electrolytics and tantaliums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- ▭ : panel designation.
- B + : B+ Line.
- ▭ : adjustment for repair.
- Power voltage is dc 14.4V and fed with regulated dc power supply from ACC and BATT cords.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
  ( ) : AM (MW/SW)
  < > : TAPE PLAYBACK
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : FM
  ➡ : AM (MW/SW)
  ⇨ : TAPE PLAYBACK

• Waveforms

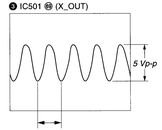
❶ IC91 ㉔ (XO)



❷ IC501 ㉚ (XT_OUT)



❸ IC501 ㉛ (X_OUT)



6-3. PRINTED WIRING BOARDS – PANEL Section –

• **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D710	F-3	LED761	C-2	LED773	B-2
D770	F-8	LED762	B-2	LED774	B-2
D771	E-10	LED763	A-2	LED800	A-11
D773	E-2	LED764	A-3		
D800	C-13	LED765	B-3	Q710	F-2
D801	C-13	LED766	C-3	Q711	F-4
D802	C-12	LED767	C-2	Q712	F-2
D803	C-13	LED768	C-2	Q713	F-3
		LED769	B-2	Q714	F-3
IC701	B-6	LED770	A-2	Q800	C-12
IC702	B-10	LED771	B-3	Q801	C-12
		LED772	C-3		

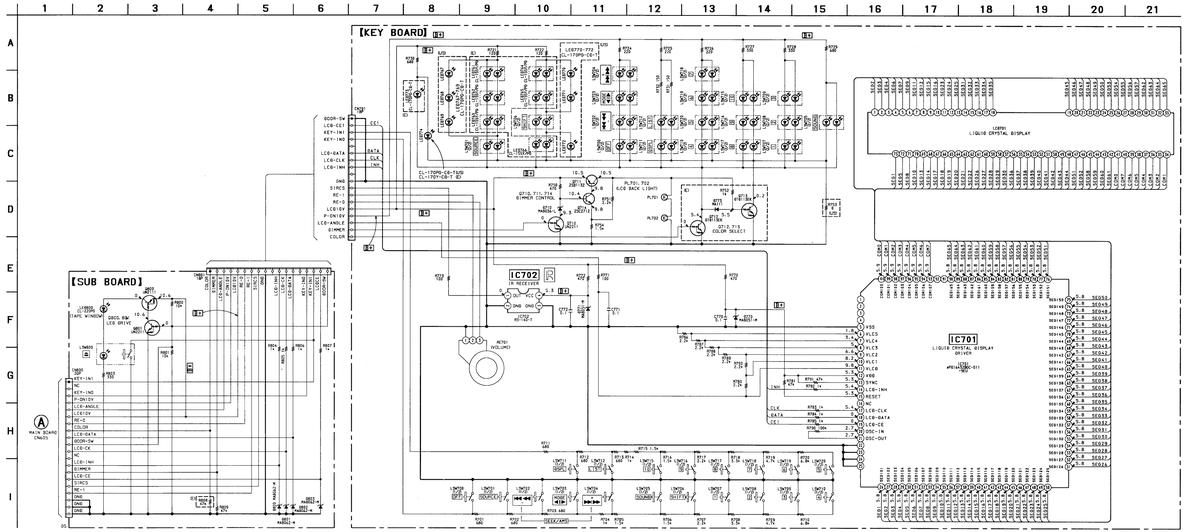
Note on Printed Wiring Boards:

- ○—— : parts extracted from the component side.
- —— : parts extracted from the conductor side.
- ● : Through hole.
- : Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

Caution:
Pattern face side: (Side B) Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Side A) Parts on the parts face side seen from the parts face are indicated.

6-4. SCHEMATIC DIAGRAM – PANEL Section –

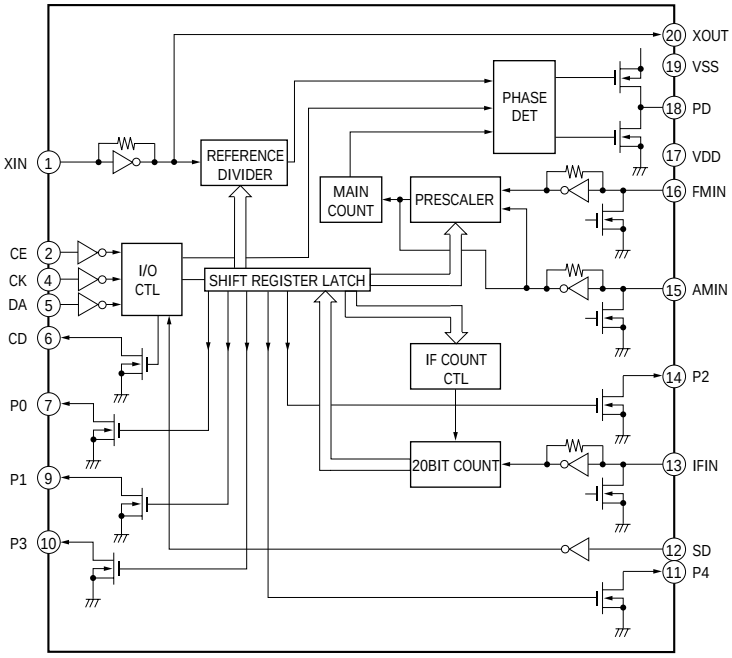


Note on Schematic Diagram:

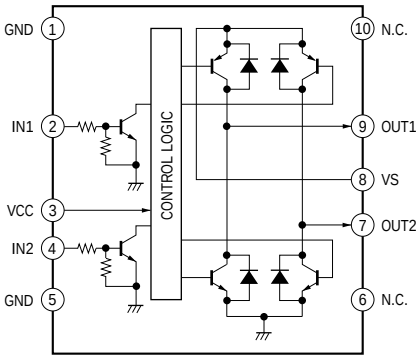
- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- : panel designation.
- B+ : B+ Line.
- Power voltage is dc 14.4V and fed with regulated dc power supply from ACC and BATT cords.
- Voltages are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.

• IC Block Diagrams – MAIN Board –

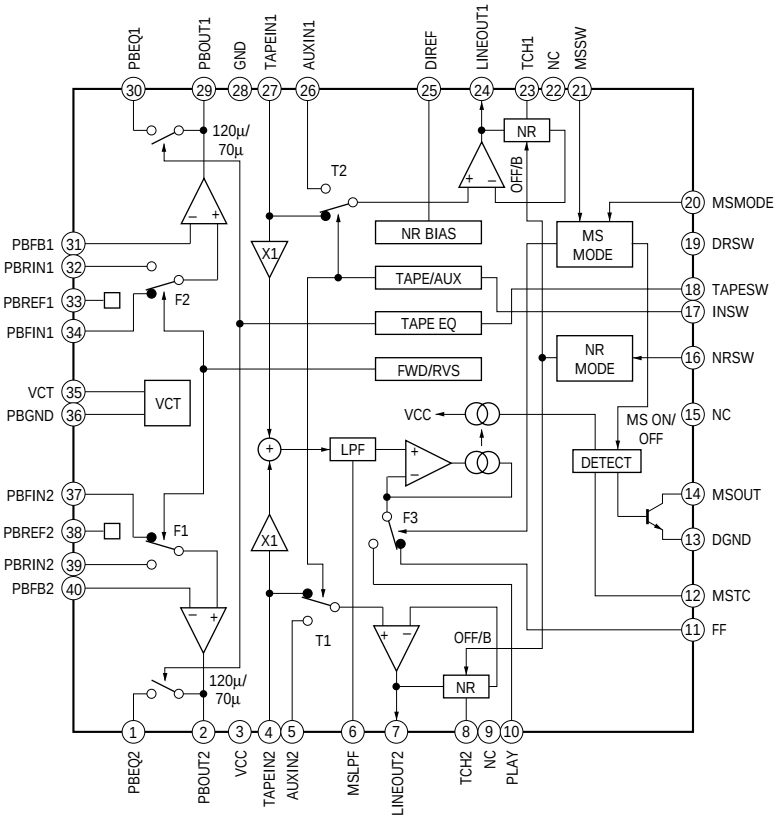
IC91 BU2624FV-E2



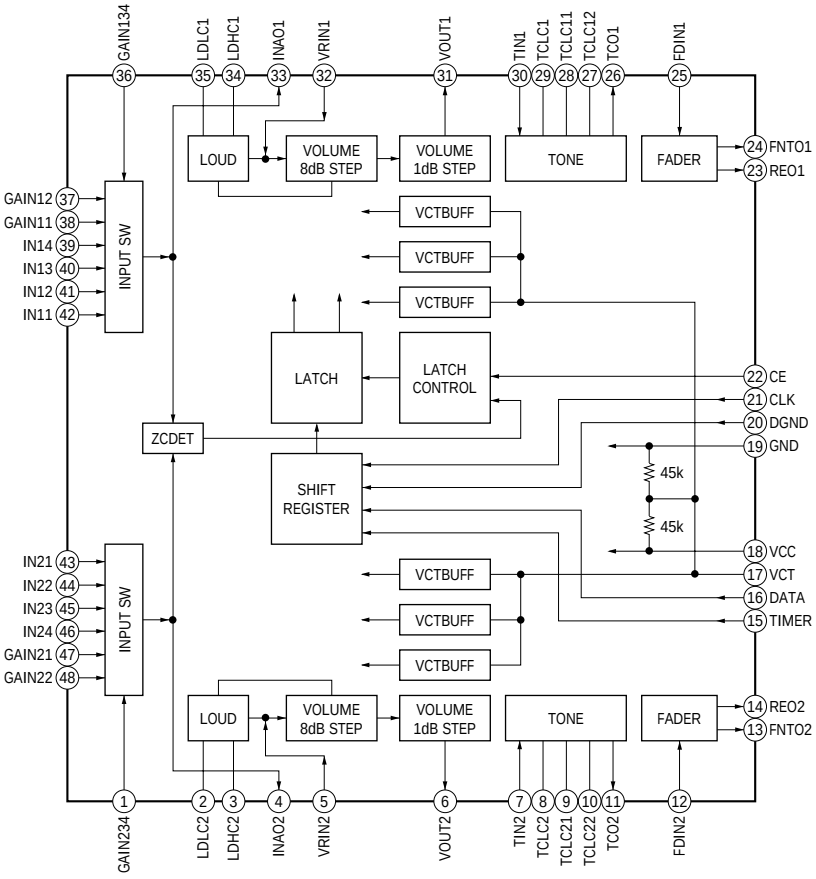
IC201 LB1638M



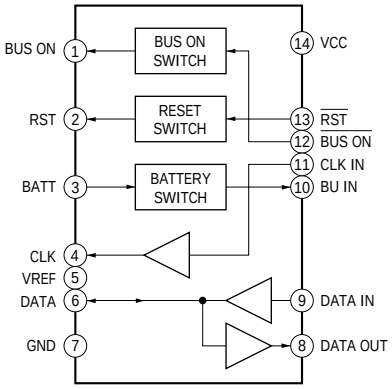
IC231 CXA2510AQ-T4



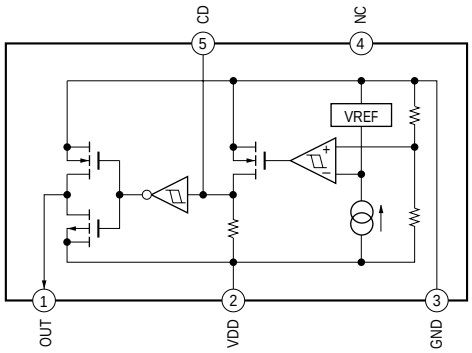
IC301 CXA1946BQ-T6



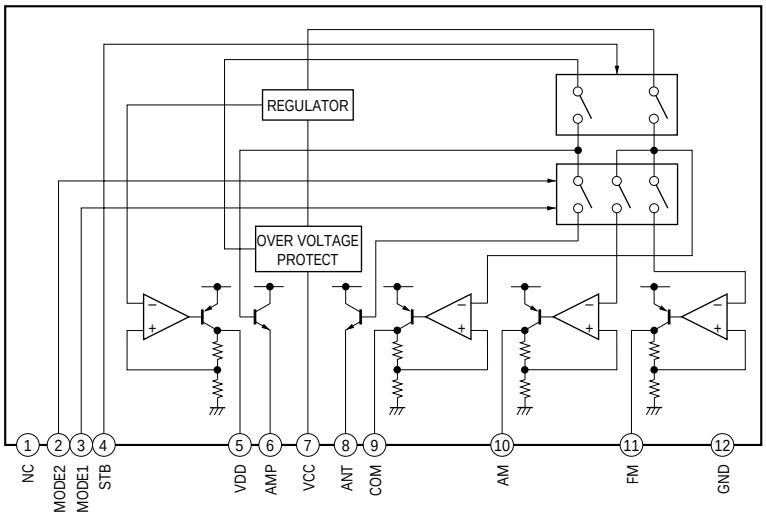
IC571 BA8270F-E2



IC552 RN5VD23AA-TL



IC601 BA3918-V3



6-5. IC PIN FUNCTION DESCRIPTION

• MAIN BOARD IC501 μPD78058GC-978-3B9 (SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Function
1	$\overline{\text{ILL.IN}}$	I	Dimmer detection signal input Dimmer is present at input of "L"
2	$\overline{\text{ST}}$	I/O	Input of FM stereo detection signal from FM/AM tuner unit (TU11), and output of forced monaural control signal to FM/AM tuner unit (TU11) (Commonly used for stereo display input and forced monaural output) FM stereo detection at input of "L", forced monaural at output of "L"
3	SD IN	I	Station detector detect input from the FM/AM tuner unit (TU11) Stop level for SEEK, BTM, etc. is determined SD is present at input of "H"
4	AVSS	—	Ground terminal (for A/D converter)
5	$\overline{\text{LCDANG}}$	O	Output signal for the LCD view angle adjustment
6	PLLCE	O	PLL serial chip enable output to the FM/AM PLL (IC91)
7	AVREF1	I	Reference voltage (+5V) input terminal (for D/A converter)
8	PLL SI	I	PLL serial data input from the FM/AM PLL (IC91)
9	PLL SO	O	PLL serial data output to the FM/AM PLL (IC91)
10	PLL CKO	O	PLL serial data transfer clock signal output to the FM/AM PLL (IC91)
11	COLSEL	I	Input terminal to set whether the illumination color change function is present or not "L": illumination color change function is present US, Canadian models: fixed at "H", E model: fixed at "L"
12	LCDSO	O	Serial data output to the liquid crystal display driver (IC701)
13	LCDCKO	O	Serial data transfer clock signal output to the liquid crystal display driver (IC701)
14	LCDCE	O	Chip enable output to the liquid crystal display driver (IC701)
15	$\overline{\text{LCDINH}}$	O	Blank indicate control signal output to the liquid crystal display driver (IC701) "L": no display
16	UNISI	I	Serial data input from the bus interface (IC571) (for SONY bus)
17	UNISO	O	Serial data output to the bus interface (IC571) (for SONY bus)
18	UNICKI	I	Serial data reading clock signal input terminal (for SONY bus)
19	UNICKO	O	Serial data transfer clock signal output to the bus interface (IC571) (for SONY bus)
20	$\overline{\text{BUSON}}$	O	Bus on/off control signal output to the bus interface (IC571) (for SONY bus) "L": bus on
21	$\overline{\text{SYSRST}}$	O	Reset signal output to the bus interface (IC571) (for SONY bus) "L": reset
22	AMPON	O	Standby control signal output to the power amplifier (IC701) "L": standby
23	TU ON	O	Tuner system power supply on/off control signal output to the BA3918 (IC601) "H": tuner on
24	FM ON	O	FM system power supply on/off control signal output to the BA3918 (IC601) "H": FM on
25	PW ON	O	Main system power supply on/off control signal output to the BA3918 (IC601) "H": power on
26	ILLON	O	Power supply on/off control signal output terminal at the illumination and liquid crystal display driver (IC701) "H": power on At power select switch (S501) on mode: "H" output at the accessory on At power select switch (S501) off mode: "H" output at the power on
27	COLOR	O	Illumination color selection signal output "H": amber, "L": green Used for the E model
28	$\overline{\text{AMSON}}$	O	Tape auto music sensor control signal output to the CXA2510Q (IC231) "L" is output to lower the gain for audio level at FF/REW
29	REL	I	Reel table rotation detect signal input from the take-up and supply reel sensor
30	$\overline{\text{MTLIN}}$	I	Auto METAL detect signal input from the METAL detect switch on the mechanism block
31	POS3	I	Tape position detect input from the tape operation switch on the mechanism block
32	POS2	I	
33	GND	—	Ground terminal
34	POS0	I	Tape position detect input from the tape operation switch on the mechanism block
35	POS1	I	

Pin No.	Pin Name	I/O	Function
36	LM LOD	O	Loading/tape operation motor control signal output to the LB1638M (IC201) (For the loading direction and forward side operation) *1
37	LM EJ	O	Loading/tape operation motor control signal output to the LB1638M (IC201) (For the eject direction and reverse side operation) *1
38	N/$\overline{R}$ OUT	O	Forward/reverse direction control signal output to the CXA2510Q (IC231) "H: forward direction, "L": reverse direction
39	MTLON	O	METAL on/off control signal output to the CXA2510Q (IC231) "H": METAL on
40	CM ON	O	Capstan/reel motor (M901) drive signal output terminal "H": motor on
41	TAPON	O	Tape system power supply on/off control signal output terminal "H": tape on
42	PW SEL	I	Power select switch (S501) input terminal "L": off (halt mode), "H": on (operation mode)
43	RC IN1	I	Rotary remote commander shift key A/D input terminal
44	$\overline{\text{TEST}}$	I	Setting terminal for the test mode "L": test mode (normally fixed at "H")
45	$\overline{\text{EQSEL}}$	I	Equalizer selection input terminal (fixed at "H")
46	BEEP	O	Beep sound drive signal output terminal
47	MUT	O	Muting control signal output to the line muting circuit and power amplifier (IC701) "H": muting on
48	VOLCE	O	Chip enable signal output to the electrical volume (IC301)
49	VOLCKO	O	Serial data transfer clock signal output to the electrical volume (IC301)
50	VOLSO	O	Serial data output to the electrical volume (IC301)
51	TAPMUT	O	Tape muting on/off control signal output to the CXA2510Q (IC231) "H": tape muting on
52	RE IN0	I	Rotary encoder (RE701) input terminal
53	RE IN1	I	Rotary encoder (RE701) input terminal
54	DOLON	O	Dolby on/off control signal output to the CXA2510Q (IC231) "H": dolby on
55	DOLBC	I/O	Dolby B/C selection control in/out terminal At initial mode: dolby B only/dolby B and C type selection input ("L" input: dolby B and C) At normal mode: dolby type selection signal output "L": dolby B, "H": dolby C Not used this function (fixed at "H")
56	$\overline{\text{AMSIN}}$	I	Whether a music is present or not from CXA2510Q (IC231) is detected at auto music sensor "L": music is present, "H": music is not present
57	DIMMER	O	Dimmer control signal output terminal
58	$\overline{\text{AD ON}}$	O	Power supply on/off control signal output for the A/D converter "L": power on
59	RAMBU	I	Internal RAM reset detection signal input from the RN5VD23AA (IC552) Input terminal to check that RAM data are not destroyed due to low voltage This checking is made within 100 msec after reset
60	$\overline{\text{RESET}}$	I	System reset signal input from the reset signal generator (IC551) and reset switch (S551) "L" is input for several 100 msec after power on, then it changes to "H"
61	SIRCS	I	Sircs signal input from the remote control receiver (IC702)
62	BU IN	I	Battery detect signal input terminal "H": battery on
63	$\overline{\text{DOORSW}}$	I	Door open/close detect input "L": door close
64	$\overline{\text{ACCIN}}$	I	Accessory detect signal input terminal "L": accessory on
65	$\overline{\text{NOSESW}}$	I	Detects the removal of the attaching and removing type front panel block "L": attaching
66	$\overline{\text{TELMUT}}$	I	Telephone muting signal input terminal At input of "L", the signal is attenuated by –20 dB
67	KEYACK	I	Input of acknowledge signal for the key entry Acknowledge signal is input to accept function and eject keys in the power off status On at input of "L"
68	VDD	—	Power supply terminal (+5V)
69	X OUT	O	Main system clock output terminal (5 MHz)
70	X IN	I	Main system clock input terminal (5 MHz)
71	GND	—	Ground terminal

Pin No.	Pin Name	I/O	Function
72	XT OUT	O	Sub system clock output terminal (32.768 kHz)
73	XT IN	I	Sub system clock input terminal (32.768 kHz)
74	AVDD	—	Power supply terminal (+5V) (for A/D converter)
75	AVREF0	I	Reference voltage input terminal (+5V) (for A/D converter)
76	KEYIN0	I	Key input terminal (A/D input) OFF, SOURCE, – ⏮ ◀◀, MODE ◀II▶, + ▶▶I ▶▶, SOUND, SHIFT, 1, 2, 3, 4 keys input (LSW700 to LSW710)
77	KEYIN1	I	Key input terminal (A/D input) ⏏, DSPL, LIST, 10, 9, 8, 7, 6, 5 keys input (LSW800, LSW711, LSW712 and LSW715 to LSW720)
78	VSM	I	FM and AM signal meter voltage detection input from the FM/AM tuner unit (TU11)
79	DSTSEL	I	Destination setting terminal US, Canadian models: fixed at center voltage, E mode: frequency select switch (S101) input "H": MW 9k step or FM 50k step, "L": MW 10k step or FM 200k step
80	RC IN0	I	Rotary remote commander shift key A/D input terminal

*1 loading/tape operation motor control

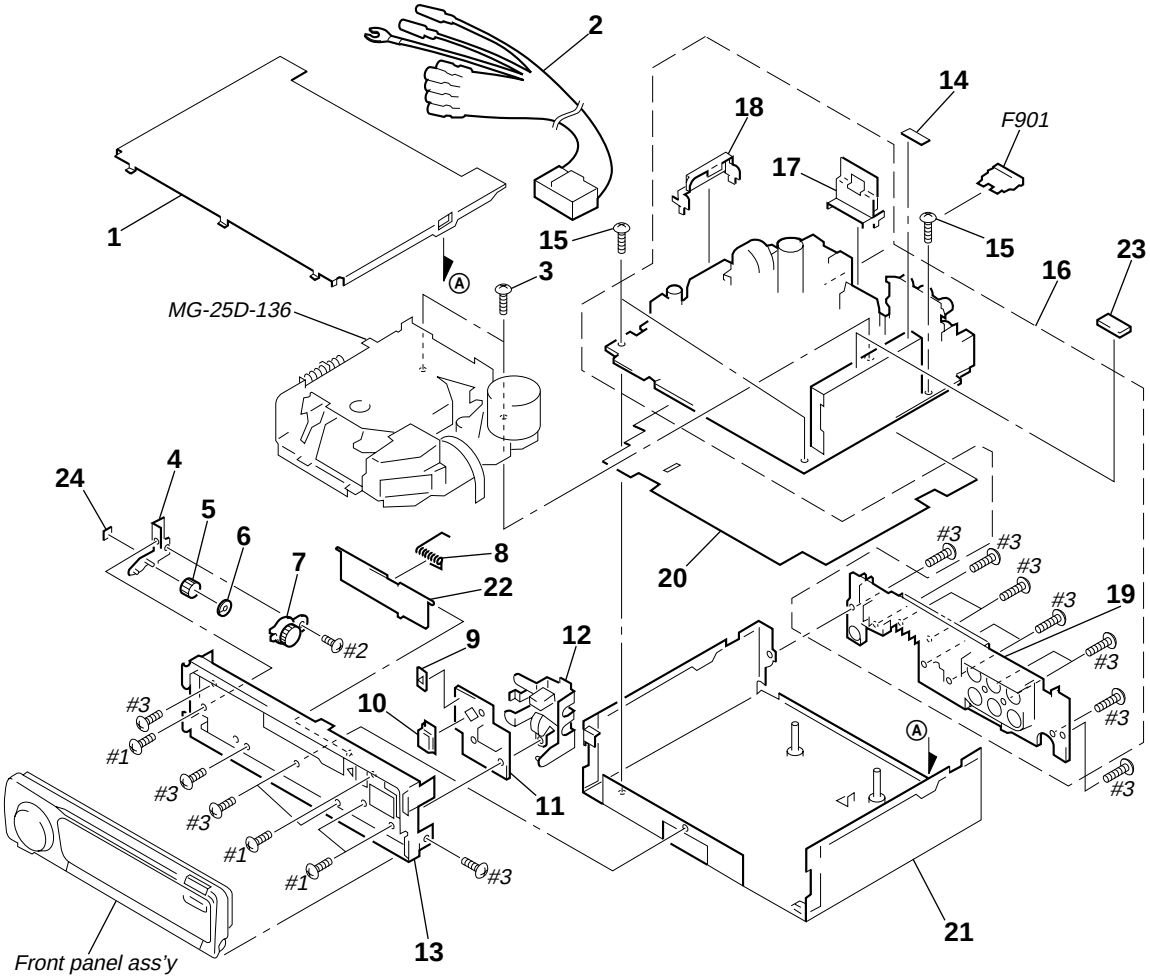
MODE / TERMINAL	STOP	LOADING/ FORWARD	EJECT/ REVERSE	BRAKE
LM LOD (pin ㊱)	"L"	"H"	"L"	"H"
LM EJ (pin ㊲)	"L"	"L"	"H"	"H"

SECTION 7
EXPLODED VIEWS

NOTE:

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of the electrical parts list.

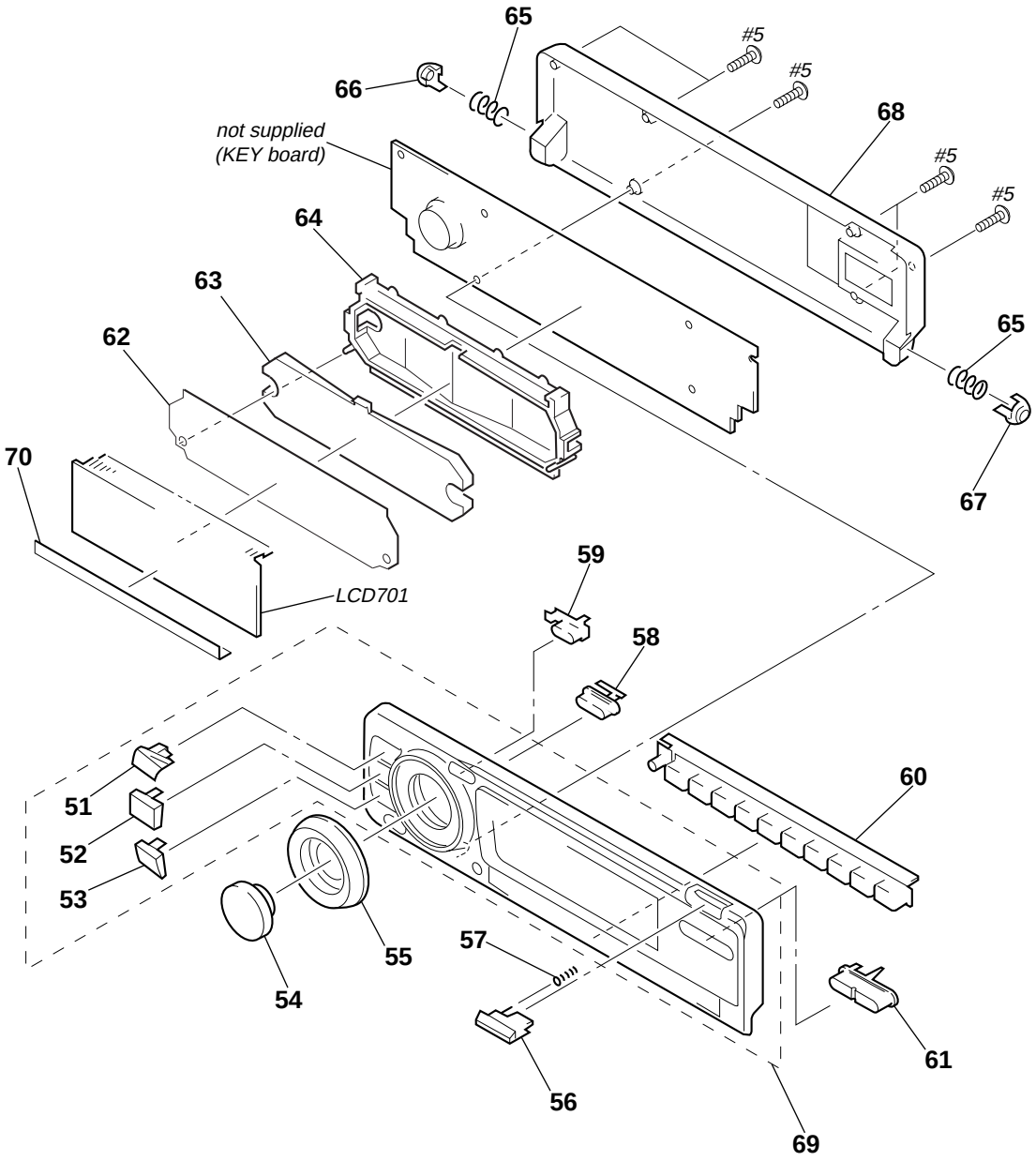
(1) CHASSIS SECTION



Ref. No.	Part No.	Description	Remark
* 1	X-3373-362-1	COVER ASSY	
2	1-776-207-11	CORD (WITH CONNECTOR) (POWER)	
3	3-919-171-01	SCREW (2.6X6) (C TIGHT)	
4	X-3373-376-1	BRACKET (GEAR) ASSY	
5	3-011-170-01	GEAR (HOLDER)	
6	3-341-752-11	WASHER, POLYETHYLENE	
7	3-953-235-31	DAMPER, OIL	
8	3-913-076-01	SPRING (C DOOR), TORSION	
9	3-010-993-11	PLATE (C DOOR), LIGHT GUIDE	
10	3-010-996-01	BUTTON (EJECT) (⏏)	
* 11	1-665-379-11	SUB BOARD	
12	X-3373-374-1	LOCK ASSY	
13	X-3375-380-1	PANEL SUB ASSY, SUB	

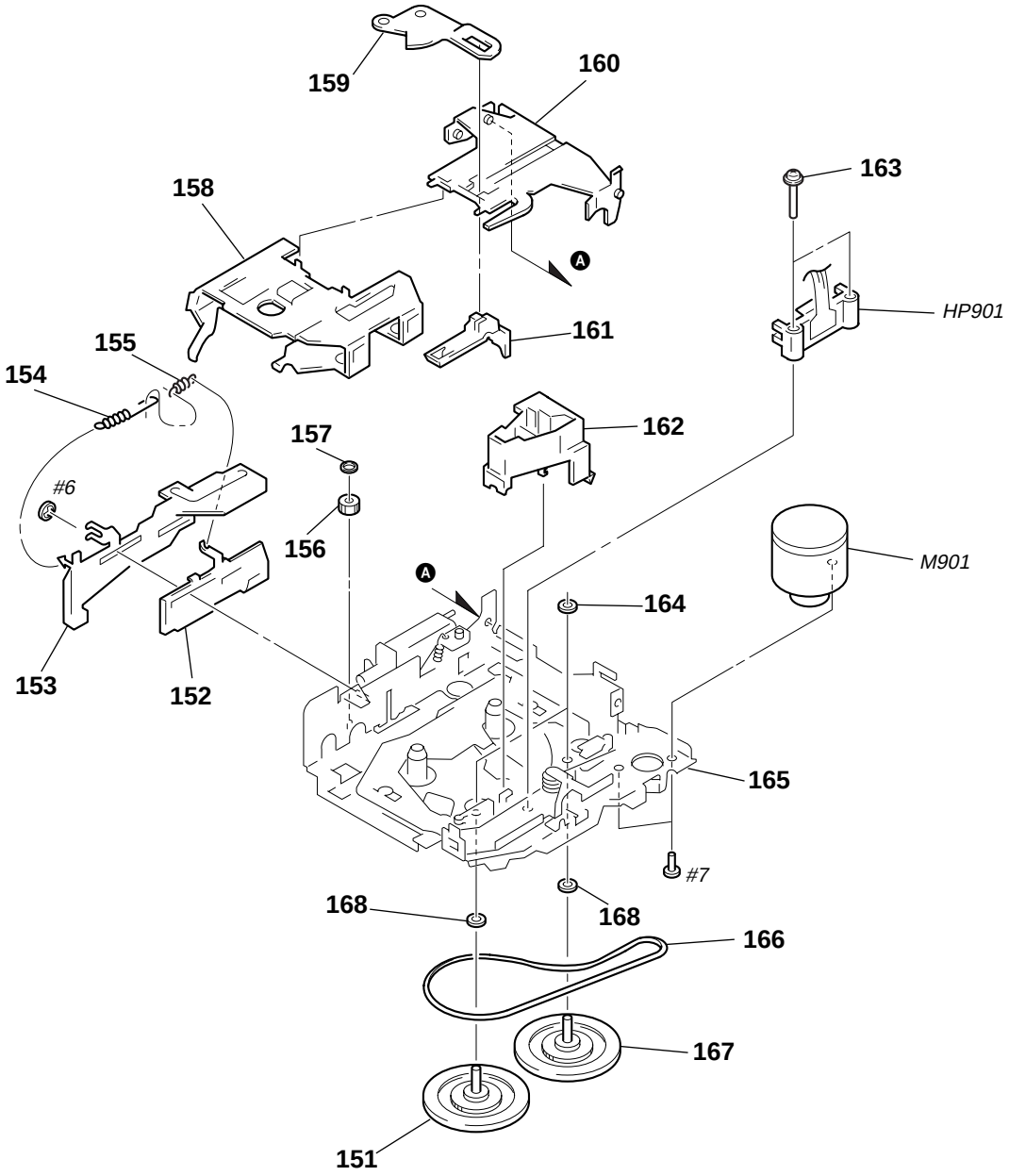
Ref. No.	Part No.	Description	Remark
* 14	3-355-209-01	PLATE (B), GROUND	
15	3-915-923-01	SCREW, GROUND POINT	
* 16	A-3309-984-A	MAIN BOARD, COMPLETE (E)	
* 16	A-3309-986-A	MAIN BOARD, COMPLETE (US)	
* 17	3-011-078-01	BRACKET (POWER IC)	
* 18	3-011-090-01	BRACKET (AMP)	
* 19	3-011-077-11	HEAT SINK	
* 20	3-012-196-01	INSULATOR	
* 21	X-3373-384-1	CHASSIS ASSY	
22	3-922-165-92	DOOR, CASSETTE	
23	3-338-263-01	CUSHION (U)	
24	3-015-291-01	SPACER (GEAR)	
F901	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) (10A)	

(2) FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
51	3-010-985-01	BUTTON (+) (+ ▶▶I ▶▶) (C7200W)	
51	3-010-985-11	BUTTON (+) (+ ▶▶I ▶▶) (C7200)	
52	3-010-986-01	BUTTON (MODE) (MODE ◀I▶) (C7200W)	
52	3-010-986-11	BUTTON (MODE) (MODE ◀I▶) (C7200)	
53	3-010-987-01	BUTTON (–) (I◀◀ ◀◀ –) (C7200W)	
53	3-010-987-11	BUTTON (–) (I◀◀ ◀◀ –) (C7200)	
54	X-3373-383-2	BUTTON (SOURCE) ASSY	
55	3-010-989-01	KNOB (VOL)	
56	3-010-983-12	BUTTON (OPEN) (C7200W)	
56	3-010-983-51	BUTTON (OPEN) (C7200)	
57	3-010-997-01	SPRING (OPEN)	
58	3-010-982-01	BUTTON (SOUND) (C7200)	
58	3-010-982-11	BUTTON (SOUND) (C7200W)	
59	3-010-981-01	BUTTON (OFF) (C7200)	
59	3-010-981-11	BUTTON (OFF) (C7200W)	
60	3-010-980-01	BUTTON (10 KEY) (●. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10) (C7200)	
60	3-010-980-12	BUTTON (10 KEY) (●. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10) (C7200W)	
61	3-011-460-01	BUTTON (LIST) (DSPL/LIST)	
* 62	3-023-221-01	ILLUMINATOR (LCD)	
* 63	3-023-162-01	PLATE (LCD), LIGHT GUIDE	
* 64	3-023-163-01	HOLDER (LCD)	
65	3-010-998-01	SPRING (BEARING)	
66	3-010-999-01	BEARING (L)	
67	3-011-000-01	BEARING (R)	
68	3-010-977-11	PANEL, FRONT BACK	
69	X-3375-418-1	PANEL SUB ASSY, FRONT (C7200)	
69	X-3375-420-1	PANEL SUB ASSY, FRONT (C7200W)	
70	3-015-290-01	SHEET (LCD), ELECTROSTATIC	
LCD701	1-801-679-21	DISPLAY PANEL, LIQUID CRYSTAL	

(3) MECHANISM DECK SECTION (MG-25D-136)



Ref. No.	Part No.	Description	Remark
151	A-3291-667-A	CLUTCH (FR) ASSY	
* 152	3-019-130-01	LEVER (LDG-A)	
* 153	3-019-131-01	LEVER (LDG-B)	
154	3-020-539-01	SPRING (LD-1), TENSION	
155	3-020-540-01	SPRING (LD-2), TENSION	
156	3-020-542-01	GEAR (LOADING FT)	
157	3-341-753-11	WASHER, POLYETHYLENE	
158	3-020-533-01	HOUSING	
* 159	3-020-532-01	ARM (SUCTION)	
160	3-020-534-01	HANGER	

Ref. No.	Part No.	Description	Remark
161	3-933-346-01	CATCHER	
162	3-933-344-01	GUIDE (C)	
163	3-014-798-01	SCREW (HEAD), SPECIAL	
164	3-364-151-01	WASHER	
165	X-3375-625-1	CHASSIS (SV) ASSY (D)	
166	3-017-302-01	BELT (25)	
167	3-936-853-01	FLYWHEEL (F)	
168	3-701-437-21	WASHER	
HP901	1-500-157-21	HEAD, MAGNETIC (PLAYBACK)	
M901	A-3291-665-A	MOTOR ASSY, MAIN (CAPSTAN/REEL)	

SECTION 8
ELECTRICAL PARTS LIST

KEY

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service.
  Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA. . : µA. . uPA. . : µPA. .
  uPB. . : µPB. . uPC. . : µPC. .
  uPD. . : µPD. .
- CAPACITORS
  uF: µF
- COILS
  uH: µH

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description	Remark
		KEY BOARD	
		**********	
*	3-023-162-01	PLATE (LCD), LIGHT GUIDE	
*	3-023-163-01	HOLDER (LCD)	
*	3-023-221-01	ILLUMINATOR (LCD)	
		< CAPACITOR >	
C770	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V	
C771	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V	
C772	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V	
		< CONNECTOR >	
CN701	1-778-183-11	PLUG, CONNECTOR 18P	
		< DIODE >	
D710	8-719-421-36	DIODE MA8036-L	
D770	8-719-420-90	DIODE MA8051-M	
D771	8-719-420-90	DIODE MA8051-M	
D773	8-719-404-49	DIODE MA111 (E)	
		< IC >	
IC701	8-759-474-47	IC uPD16432BGC-011-9EU	
IC702	8-749-012-17	IC RS-140-T	
		< LIQUID CRYSTAL DISPLAY >	
LCD701	1-801-679-21	DISPLAY PANEL, LIQUID CRYSTAL	
		< DIODE >	
LED761	8-719-987-45	LED CL-155Y/PG-CD (E)	
LED762	8-719-987-45	LED CL-155Y/PG-CD (E)	
LED763	8-719-987-45	LED CL-155Y/PG-CD (E)	
LED764	8-719-987-45	LED CL-155Y/PG-CD (E)	
LED765	8-719-987-45	LED CL-155Y/PG-CD (E)	
LED766	8-719-987-45	LED CL-155Y/PG-CD (E)	
LED767	8-719-033-14	LED CL-170PG-CD-T (US)	
LED768	8-719-033-14	LED CL-170PG-CD-T (US)	
LED769	8-719-033-14	LED CL-170PG-CD-T (US)	
LED770	8-719-033-14	LED CL-170PG-CD-T (US)	
LED771	8-719-033-14	LED CL-170PG-CD-T (US)	
LED772	8-719-033-14	LED CL-170PG-CD-T (US)	
LED773	8-719-033-14	LED CL-170PG-CD-T (E)	
LED774	8-719-033-14	LED CL-170PG-CD-T (US)	
LED774	8-719-033-13	LED CL-170Y-CD-T (E)	
		< SWITCH >	
LSW700	1-762-619-11	SWITCH, KEY BOARD (WITH LED) (OFF) (US)	
LSW700	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (OFF) (E)	
LSW701	1-762-619-11	SWITCH, KEY BOARD (WITH LED) (SOURCE) (US)	
LSW701	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (SOURCE) (E)	
LSW702	1-762-619-11	SWITCH, KEY BOARD (WITH LED) (SEEK/AMS, I◀◀ ◀◀/–) (US)	
LSW702	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (SEEK/AMS, I◀◀ ◀◀/–) (E)	
LSW703	1-762-619-11	SWITCH, KEY BOARD (WITH LED) (MODE ◀II▶) (US)	
LSW703	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (MODE ◀II▶) (E)	
LSW704	1-762-619-11	SWITCH, KEY BOARD (WITH LED) (SEEK/AMS, ▶▶I ▶▶/+) (US)	
LSW704	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (SEEK/AMS, ▶▶I ▶▶/+) (E)	
LSW705	1-762-619-11	SWITCH, KEY BOARD (WITH LED) (SOUND) (US)	
LSW705	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (SOUND) (E)	
LSW706	1-762-619-11	SWITCH, KEY BOARD (WITH LED) (SHIFT) (US)	
LSW706	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (SHIFT) (E)	
LSW707	1-762-619-11	SWITCH, KEY BOARD (WITH LED) (1) (US)	
LSW707	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (1) (E)	
LSW708	1-762-619-11	SWITCH, KEY BOARD (WITH LED) (2) (US)	
LSW708	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (2) (E)	
LSW709	1-762-619-11	SWITCH, KEY BOARD (WITH LED) (3) (US)	
LSW709	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (3) (E)	
LSW710	1-762-619-11	SWITCH, KEY BOARD (WITH LED) (4) (US)	
LSW710	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (4) (E)	
LSW711	1-762-619-11	SWITCH, KEY BOARD (WITH LED) (DSPL) (US)	
LSW711	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (DSPL) (E)	
LSW712	1-762-619-11	SWITCH, KEY BOARD (WITH LED) (LIST) (US)	
LSW712	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (LIST) (E)	
LSW715	1-762-619-11	SWITCH, KEY BOARD (WITH LED) (10) (US)	
LSW715	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (10) (E)	
LSW716	1-762-619-11	SWITCH, KEY BOARD (WITH LED) (9) (US)	
LSW716	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (9) (E)	

KEY **MAIN**

Ref. No.	Part No.	Description	Remark
LSW717	1-762-619-11	SWITCH, KEY BOARD (WITH LED) (8) (US)	
LSW717	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (8) (E)	
LSW718	1-762-619-11	SWITCH, KEY BOARD (WITH LED) (7) (US)	
LSW718	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (7) (E)	
LSW719	1-762-619-11	SWITCH, KEY BOARD (WITH LED) (6) (US)	
LSW719	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (6) (E)	
LSW720	1-762-619-11	SWITCH, KEY BOARD (WITH LED) (5) (US)	
LSW720	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (5) (E)	
		< PILOT LAMP >	
PL701	1-517-630-31	LAMP, PILOT (LCD BACK LIGHT)	
PL702	1-517-630-31	LAMP, PILOT (LCD BACK LIGHT)	
		< TRANSISTOR >	
Q710	8-729-421-22	TRANSISTOR UN2211	
Q711	8-729-106-60	TRANSISTOR 2SB1115A	
Q712	8-729-904-66	TRANSISTOR DTD113EK (E)	
Q713	8-729-904-66	TRANSISTOR DTD113EK (E)	
Q714	8-729-230-49	TRANSISTOR 2SC2712-YG	
		< RESISTOR >	

Ref. No.	Part No.	Description			Remark
R701	1-216-045-00	METAL CHIP	680	5%	1/10W
R702	1-216-045-00	METAL CHIP	680	5%	1/10W
R703	1-216-045-00	METAL CHIP	680	5%	1/10W
R704	1-216-049-11	RES, CHIP	1K	5%	1/10W
R705	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R706	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R707	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R708	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R709	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R710	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R711	1-216-045-00	METAL CHIP	680	5%	1/10W
R712	1-216-045-00	METAL CHIP	680	5%	1/10W
R713	1-216-045-00	METAL CHIP	680	5%	1/10W
R714	1-216-049-11	RES, CHIP	1K	5%	1/10W
R715	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R716	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R717	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R718	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R719	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R720	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R721	1-216-176-11	RES, CHIP	120	5%	1/8W
R722	1-216-176-11	RES, CHIP	120	5%	1/8W
R724	1-216-182-00	RES, CHIP	220	5%	1/8W
R725	1-216-033-00	METAL CHIP	220	5%	1/10W
R726	1-216-182-00	RES, CHIP	220	5%	1/8W
R727	1-216-037-00	METAL CHIP	330	5%	1/10W
R728	1-216-037-00	METAL CHIP	330	5%	1/10W
R729	1-216-045-00	METAL CHIP	680	5%	1/10W
R730	1-216-045-00	METAL CHIP	680	5%	1/10W
R731	1-216-029-00	METAL CHIP	150	5%	1/10W
R732	1-216-029-00	METAL CHIP	150	5%	1/10W
R750	1-216-041-00	METAL CHIP	470	5%	1/10W
R751	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R752	1-216-049-11	RES, CHIP	1K	5%	1/10W (E)
R753	1-216-295-00	SHORT	0	(US)	
R754	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R770	1-216-041-00	METAL CHIP	470	5%	1/10W
R771	1-216-025-00	RES, CHIP	100	5%	1/10W
R772	1-216-041-00	METAL CHIP	470	5%	1/10W
R773	1-216-025-00	RES, CHIP	100	5%	1/10W
R780	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R781	1-216-089-00	RES, CHIP	47K	5%	1/10W
R782	1-216-049-11	RES, CHIP	1K	5%	1/10W
R783	1-216-049-11	RES, CHIP	1K	5%	1/10W
R784	1-216-049-11	RES, CHIP	1K	5%	1/10W
R785	1-216-049-11	RES, CHIP	1K	5%	1/10W
R786	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R787	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R788	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R789	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R790	1-216-097-00	RES, CHIP	100K	5%	1/10W
R791	1-216-089-00	RES, CHIP	47K	5%	1/10W
R792	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
		< ROTARY ENCODER >			
RE701	1-475-014-11	ENCODER, ROTARY (VOLUME)			

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*	A-3309-984-A	MAIN BOARD, COMPLETE (E)	
*	A-3309-986-A	MAIN BOARD, COMPLETE (US)	
		**********	
*	3-011-077-11	HEAT SINK	
*	3-011-078-01	BRACKET (POWER IC)	
*	3-011-090-01	BRACKET (AMP)	
	7-685-793-09	SCREW +PTT 2.6X8 (S)	
		< BUZZER >	
BZ556	1-504-920-11	BUZZER	
		< CAPACITOR >	

C11	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C12	1-126-933-11	ELECT	100uF	20%	16V
C13	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C15	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C16	1-124-584-00	ELECT	100uF	20%	10V
C17	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C31	1-163-986-00	CERAMIC CHIP	0.027uF	10%	25V (US)
C31	1-163-024-00	CERAMIC CHIP	0.018uF	10%	50V (E)
C33	1-124-257-00	ELECT	2.2uF	20%	50V
C36	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C37	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V
C41	1-163-986-00	CERAMIC CHIP	0.027uF	10%	25V (US)
C41	1-163-024-00	CERAMIC CHIP	0.018uF	10%	50V (E)
C43	1-124-257-00	ELECT	2.2uF	20%	50V
C71	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C73	1-124-234-00	ELECT	22uF	20%	16V
C75	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C76	1-136-169-00	FILM	0.22uF	5%	50V
C77	1-137-368-11	FILM	0.0047uF	5%	50V
C91	1-164-232-11	CERAMIC CHIP	0.01uF		50V

Ref. No.	Part No.	Description			Remark
C92	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C93	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C94	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C95	1-126-157-11	ELECT	10uF	20%	16V
C96	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C97	1-163-099-00	CERAMIC CHIP	18PF	5%	50V
C98	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C105	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C106	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C201	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C202	1-126-157-11	ELECT	10uF	20%	16V
C203	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C204	1-128-528-11	ELECT	470uF	20%	16V
C206	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C207	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C231	1-124-234-00	ELECT	22uF	20%	16V
C232	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C234	1-163-023-00	CERAMIC CHIP	0.015uF	5%	50V
C241	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C242	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C243	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C244	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C251	1-163-131-00	CERAMIC CHIP	390PF	5%	50V
C252	1-163-131-00	CERAMIC CHIP	390PF	5%	50V
C253	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C254	1-126-159-11	ELECT	0.47uF	20%	50V
C255	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C261	1-163-131-00	CERAMIC CHIP	390PF	5%	50V
C262	1-163-131-00	CERAMIC CHIP	390PF	5%	50V
C263	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C264	1-126-159-11	ELECT	0.47uF	20%	50V
C265	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C266	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C268	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C269	1-163-023-00	CERAMIC CHIP	0.015uF	5%	50V
C271	1-124-257-00	ELECT	2.2uF	20%	50V
C281	1-124-257-00	ELECT	2.2uF	20%	50V
C301	1-126-295-11	ELECT	10uF	20%	35V
C305	1-136-165-00	FILM	0.1uF	5%	50V
C306	1-137-366-11	FILM	0.0022uF	5%	50V
C307	1-126-157-11	ELECT	10uF	20%	16V
C308	1-137-366-11	FILM	0.0022uF	5%	50V
C309	1-115-870-11	ELECT	0.47uF	20%	50V
C310	1-126-157-11	ELECT	10uF	20%	16V
C325	1-126-157-11	ELECT	10uF	20%	16V
C326	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C333	1-126-791-11	ELECT	10uF	20%	16V
C334	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C336	1-126-514-11	ELECT	22uF	20%	16V
C337	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C343	1-126-791-11	ELECT	10uF	20%	16V
C344	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C346	1-126-514-11	ELECT	22uF	20%	16V
C347	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C351	1-126-786-11	ELECT	47uF	20%	16V
C352	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C353	1-126-514-11	ELECT	22uF	20%	16V
C354	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C359	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C401	1-126-295-11	ELECT	10uF	20%	35V
C405	1-136-165-00	FILM	0.1uF	5%	50V
C406	1-137-366-11	FILM	0.0022uF	5%	50V
C407	1-126-157-11	ELECT	10uF	20%	16V
C408	1-137-366-11	FILM	0.0022uF	5%	50V
C409	1-115-870-11	ELECT	0.47uF	20%	50V
C410	1-126-157-11	ELECT	10uF	20%	16V
C433	1-126-791-11	ELECT	10uF	20%	16V
C434	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C436	1-126-514-11	ELECT	22uF	20%	16V
C437	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C443	1-126-791-11	ELECT	10uF	20%	16V
C444	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C446	1-126-514-11	ELECT	22uF	20%	16V
C447	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C511	1-164-222-11	CERAMIC CHIP	0.22uF		25V
C522	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C523	1-163-099-00	CERAMIC CHIP	18PF	5%	50V
C524	1-163-229-11	CERAMIC CHIP	12PF	5%	50V
C546	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C551	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C552	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C553	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C554	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C556	1-126-924-11	ELECT	330uF	20%	10V
C557	1-125-701-11	DOUBLE LAYER	0.047F		5.5V
C561	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C562	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C566	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C567	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C572	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C581	1-126-163-11	ELECT	4.7uF	20%	50V
C591	1-126-163-11	ELECT	4.7uF	20%	50V
C601	1-126-157-11	ELECT	10uF	20%	16V
C602	1-107-888-11	ELECT	47uF	20%	25V
C603	1-107-888-11	ELECT	47uF	20%	25V
C604	1-107-888-11	ELECT	47uF	20%	25V
C651	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C652	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C672	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C673	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C701	1-136-165-00	FILM	0.1uF	5%	50V
C702	1-136-165-00	FILM	0.1uF	5%	50V
C703	1-136-165-00	FILM	0.1uF	5%	50V
C704	1-136-165-00	FILM	0.1uF	5%	50V
C705	1-136-165-00	FILM	0.1uF	5%	50V
C706	1-136-165-00	FILM	0.1uF	5%	50V
C707	1-136-165-00	FILM	0.1uF	5%	50V
C708	1-136-165-00	FILM	0.1uF	5%	50V
C710	1-136-173-00	FILM	0.47uF	5%	50V
C712	1-164-506-11	CERAMIC CHIP	4.7uF		16V
C715	1-115-866-11	ELECT	4.7uF	20%	35V
C716	1-136-173-00	FILM	0.47uF	5%	50V
C717	1-126-804-11	ELECT	100uF	20%	35V
C718	1-115-872-11	ELECT	2.2uF	20%	50V
C901	1-111-233-11	ELECT	5600uF	20%	16V

MAIN

Ref. No.	Part No.	Description			Remark
C921	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C922	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C923	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C924	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C931	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C933	1-124-257-00	ELECT	2.2uF	20%	50V
C941	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C944	1-124-257-00	ELECT	2.2uF	20%	50V
C951	1-126-163-11	ELECT	4.7uF	20%	50V
C952	1-124-589-11	ELECT	47uF	20%	16V
		< CONNECTOR/JACK >			
CN11	1-764-808-14	JACK (FM/AM ANTENNA)			
* CN201	1-506-995-11	PIN, CONNECTOR (PC BOARD) 13P			
CN231	1-766-260-11	CONNECTOR, FFC/FPC (ZIF) 7P			
CN301	1-774-700-11	JACK, PIN 6P (BUS AUDIO IN, LINE OUT FRONT/REAR)			
CN571	1-580-907-31	PLUG, CONNECTOR (BUS CONTROL IN)			
CN651	1-770-411-11	CONNECTOR, BOARD TO BOARD 20P			
CN901	1-774-701-11	PIN, CONNECTOR 16P			
		< COMPOSITION CIRCUIT BLOCK >			
CP11	1-519-504-11	GAP, DISCHARGE			
		< DIODE >			
D11	8-719-991-65	DIODE	SB02W03C		
D71	8-719-422-49	DIODE	MA8056-L		
D72	8-719-422-94	DIODE	MA8091-L		
D202	8-719-422-97	DIODE	MA8091-M		
D203	8-719-404-49	DIODE	MA111		
D521	8-719-404-49	DIODE	MA111		
D554	8-719-105-99	DIODE	RD6.2M-B1		
D556	8-719-991-65	DIODE	SB02W03C		
D557	8-719-404-49	DIODE	MA111		
D561	8-719-404-49	DIODE	MA111		
D562	8-719-105-99	DIODE	RD6.2M-B1		
D563	8-719-105-99	DIODE	RD6.2M-B1		
D564	8-719-400-20	DIODE	MA152WA		
D571	8-719-056-83	DIODE	UDZ-TE-17-6.8B		
D572	8-719-105-99	DIODE	RD6.2M-B1		
D573	8-719-105-99	DIODE	RD6.2M-B1		
D574	8-719-105-99	DIODE	RD6.2M-B1		
D575	8-719-978-69	DIODE	DTZ-TT11-16B		
D576	8-719-404-49	DIODE	MA111		
D581	8-719-801-78	DIODE	1SS184		
D582	8-719-105-99	DIODE	RD6.2M-B1		
D591	8-719-801-78	DIODE	1SS184		
D592	8-719-105-99	DIODE	RD6.2M-B1		
D651	8-719-056-88	DIODE	UDZ-TE-17-11B		
D652	8-719-056-88	DIODE	UDZ-TE-17-11B		
D661	8-719-105-99	DIODE	RD6.2M-B1		
D662	8-719-105-99	DIODE	RD6.2M-B1		
D664	8-719-105-99	DIODE	RD6.2M-B1		
D667	8-719-105-99	DIODE	RD6.2M-B1		
D669	8-719-105-99	DIODE	RD6.2M-B1		
D670	8-719-105-99	DIODE	RD6.2M-B1		
D671	8-719-056-88	DIODE	UDZ-TE-17-11B		
D701	8-719-313-73	DIODE	SFPB-52		
D702	8-719-313-73	DIODE	SFPB-52		
D703	8-719-313-73	DIODE	SFPB-52		
D704	8-719-313-73	DIODE	SFPB-52		
D705	8-719-313-73	DIODE	SFPB-52		
D706	8-719-313-73	DIODE	SFPB-52		
D707	8-719-313-73	DIODE	SFPB-52		
D708	8-719-313-73	DIODE	SFPB-52		
D901	8-719-049-38	DIODE	1N5404TU		
D923	8-719-105-99	DIODE	RD6.2M-B1		
D924	8-719-105-99	DIODE	RD6.2M-B1		
D951	8-719-422-16	DIODE	MA8039-L-TX		
D953	8-719-404-49	DIODE	MA111		
		< IC >			
IC91	8-759-448-85	IC	BU2624FV-E2		
IC201	8-759-823-87	IC	LB1638M		
IC231	8-752-079-79	IC	CXA2510AQ-T4		
IC301	8-752-078-67	IC	CXA1946BQ-T6		
IC302	8-759-099-06	IC	M5218AFP-TE1		
IC501	8-759-474-90	IC	uPD78058GC-978-3B9		
IC551	8-759-363-81	IC	XC61AN4002PR		
IC552	8-759-344-91	IC	RN5VD23AA-TL		
IC571	8-759-449-89	IC	BA8270F-E2		
IC601	8-759-347-50	IC	BA3918-V3		
IC701	8-759-448-61	IC	HA13156		
		< JACK >			
J561	1-566-822-41	JACK (REMOTE IN)			
		< COIL/SHORT >			
L91	1-414-233-21	INDUCTOR CHIP	0uH		
L501	1-216-295-00	SHORT	0		
L511	1-414-233-21	INDUCTOR CHIP	0uH		
L901	1-411-669-21	COIL, CHOKE			
		< TRANSISTOR >			
Q71	8-729-808-02	TRANSISTOR	2SD1622-T-TD		
Q72	8-729-230-49	TRANSISTOR	2SC2712-YG		
Q73	8-729-021-94	FET	2SK1657-T1B		
Q101	8-729-230-49	TRANSISTOR	2SC2712-YG		
Q201	8-729-026-68	TRANSISTOR	2SD2525(TP)		
Q202	8-729-424-08	TRANSISTOR	UN2111		
Q203	8-729-106-60	TRANSISTOR	2SB1115A		
Q204	8-729-421-22	TRANSISTOR	UN2211		
Q205	8-729-421-22	TRANSISTOR	UN2211		
Q331	8-729-021-95	TRANSISTOR	RN1441-A(TE85L)		
Q341	8-729-021-95	TRANSISTOR	RN1441-A(TE85L)		
Q431	8-729-021-95	TRANSISTOR	RN1441-A(TE85L)		
Q441	8-729-021-95	TRANSISTOR	RN1441-A(TE85L)		
Q556	8-729-421-22	TRANSISTOR	UN2211		
Q561	8-729-424-08	TRANSISTOR	UN2111		
Q562	8-729-424-08	TRANSISTOR	UN2111		
Q572	8-729-421-22	TRANSISTOR	UN2211		
Q573	8-729-424-08	TRANSISTOR	UN2111		
Q581	8-729-230-49	TRANSISTOR	2SC2712-YG		
Q591	8-729-230-49	TRANSISTOR	2SC2712-YG		
Q651	8-729-020-67	TRANSISTOR	XN1A312-TX		

Ref. No.	Part No.	Description			Remark
Q652	8-729-026-68	TRANSISTOR	2SD2525(TP)		
Q653	8-729-020-67	TRANSISTOR	XN1A312-TX		
Q654	8-729-026-68	TRANSISTOR	2SD2525(TP)		
Q656	8-729-230-49	TRANSISTOR	2SC2712-YG		
Q657	8-729-216-22	TRANSISTOR	2SA1162-G		
Q701	8-729-421-22	TRANSISTOR	UN2211		
Q951	8-729-424-08	TRANSISTOR	UN2111		
Q952	8-729-021-94	FET	2SK1657-T1B		
Q953	8-729-021-94	FET	2SK1657-T1B		
		< RESISTOR >			
R11	1-216-049-11	RES, CHIP	1K	5%	1/10W
R12	1-216-037-00	METAL CHIP	330	5%	1/10W
R13	1-216-073-00	METAL CHIP	10K	5%	1/10W
R14	1-216-073-00	METAL CHIP	10K	5%	1/10W
R15	1-216-295-00	SHORT	0		
R16	1-216-073-00	METAL CHIP	10K	5%	1/10W
R17	1-216-073-00	METAL CHIP	10K	5%	1/10W
R18	1-216-296-00	SHORT	0		
R19	1-216-296-00	SHORT	0		
R31	1-216-077-00	METAL CHIP	15K	5%	1/10W (US)
R31	1-216-049-11	RES, CHIP	1K	5%	1/10W (E)
R35	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R41	1-216-077-00	METAL CHIP	15K	5%	1/10W (US)
R41	1-216-049-11	RES, CHIP	1K	5%	1/10W (E)
R71	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R72	1-216-049-11	RES, CHIP	1K	5%	1/10W
R73	1-216-049-11	RES, CHIP	1K	5%	1/10W
R74	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R75	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R91	1-216-073-00	METAL CHIP	10K	5%	1/10W
R92	1-216-073-00	METAL CHIP	10K	5%	1/10W
R93	1-216-073-00	METAL CHIP	10K	5%	1/10W
R94	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R95	1-216-073-00	METAL CHIP	10K	5%	1/10W
R96	1-216-073-00	METAL CHIP	10K	5%	1/10W
R103	1-216-097-00	RES, CHIP	100K	5%	1/10W
R104	1-216-097-00	RES, CHIP	100K	5%	1/10W (E)
R105	1-216-097-00	RES, CHIP	100K	5%	1/10W (E)
R106	1-216-097-00	RES, CHIP	100K	5%	1/10W (US)
R107	1-216-089-00	RES, CHIP	47K	5%	1/10W (US)
R201	1-216-049-11	RES, CHIP	1K	5%	1/10W
R202	1-216-150-00	RES, CHIP	10	5%	1/8W
R203	1-216-150-00	RES, CHIP	10	5%	1/8W
R204	1-216-150-00	RES, CHIP	10	5%	1/8W
R205	1-216-150-00	RES, CHIP	10	5%	1/8W
R206	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R207	1-216-073-00	METAL CHIP	10K	5%	1/10W
R232	1-216-113-00	METAL CHIP	470K	5%	1/10W
R251	1-216-097-00	RES, CHIP	100K	5%	1/10W
R252	1-216-097-00	RES, CHIP	100K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R253	1-216-027-00	METAL CHIP	120	5%	1/10W
R254	1-216-109-00	METAL CHIP	330K	5%	1/10W
R255	1-216-079-00	METAL CHIP	18K	5%	1/10W
R256	1-216-075-00	METAL CHIP	12K	5%	1/10W
R257	1-216-682-11	METAL CHIP	20K	0.5%	1/10W
R261	1-216-097-00	RES, CHIP	100K	5%	1/10W
R262	1-216-097-00	RES, CHIP	100K	5%	1/10W
R263	1-216-027-00	METAL CHIP	120	5%	1/10W
R264	1-216-109-00	METAL CHIP	330K	5%	1/10W
R265	1-216-079-00	METAL CHIP	18K	5%	1/10W
R266	1-216-075-00	METAL CHIP	12K	5%	1/10W
R267	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R268	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R271	1-216-057-00	METAL CHIP	2.2K	5%	1/10W (US)
R271	1-216-061-00	METAL CHIP	3.3K	5%	1/10W (E)
R272	1-216-073-00	METAL CHIP	10K	5%	1/10W
R281	1-216-057-00	METAL CHIP	2.2K	5%	1/10W (US)
R281	1-216-061-00	METAL CHIP	3.3K	5%	1/10W (E)
R282	1-216-073-00	METAL CHIP	10K	5%	1/10W
R301	1-216-073-00	METAL CHIP	10K	5%	1/10W
R304	1-216-071-00	METAL CHIP	8.2K	5%	1/10W (US)
R304	1-216-075-00	METAL CHIP	12K	5%	1/10W (E)
R331	1-216-089-00	RES, CHIP	47K	5%	1/10W
R332	1-216-089-00	RES, CHIP	47K	5%	1/10W
R333	1-216-033-00	METAL CHIP	220	5%	1/10W
R334	1-216-081-00	METAL CHIP	22K	5%	1/10W
R337	1-208-522-61	RES, CHIP	33K	2%	1/10W
R341	1-216-089-00	RES, CHIP	47K	5%	1/10W
R342	1-216-089-00	RES, CHIP	47K	5%	1/10W
R343	1-216-033-00	METAL CHIP	220	5%	1/10W
R344	1-216-081-00	METAL CHIP	22K	5%	1/10W
R347	1-208-522-61	RES, CHIP	33K	2%	1/10W
R351	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R352	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R401	1-216-073-00	METAL CHIP	10K	5%	1/10W
R404	1-216-071-00	METAL CHIP	8.2K	5%	1/10W (US)
R404	1-216-075-00	METAL CHIP	12K	5%	1/10W (E)
R433	1-216-033-00	METAL CHIP	220	5%	1/10W
R434	1-216-081-00	METAL CHIP	22K	5%	1/10W
R437	1-208-522-61	RES, CHIP	33K	2%	1/10W
R443	1-216-033-00	METAL CHIP	220	5%	1/10W
R444	1-216-081-00	METAL CHIP	22K	5%	1/10W
R447	1-208-522-61	RES, CHIP	33K	2%	1/10W
R501	1-216-097-00	RES, CHIP	100K	5%	1/10W
R502	1-216-097-00	RES, CHIP	100K	5%	1/10W (US)
R503	1-216-097-00	RES, CHIP	100K	5%	1/10W
R504	1-216-081-00	METAL CHIP	22K	5%	1/10W
R505	1-216-081-00	METAL CHIP	22K	5%	1/10W
R506	1-216-097-00	RES, CHIP	100K	5%	1/10W
R507	1-216-295-00	SHORT	0 (E)		

MAIN

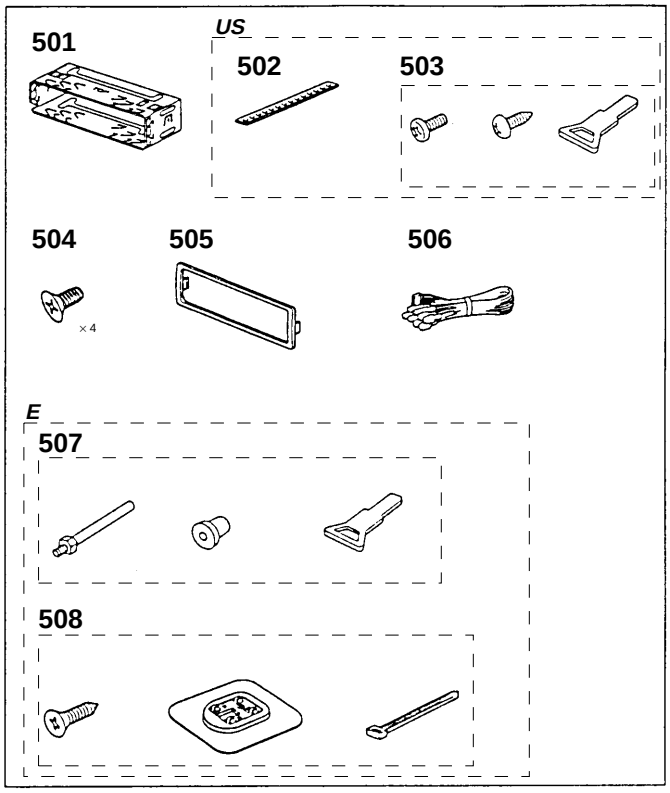
Ref. No.	Part No.	Description			Remark
R508	1-216-097-00	RES, CHIP	100K	5%	1/10W (US)
R510	1-216-097-00	RES, CHIP	100K	5%	1/10W
R511	1-216-097-00	RES, CHIP	100K	5%	1/10W
R512	1-216-049-11	RES, CHIP	1K	5%	1/10W
R513	1-216-081-00	METAL CHIP	22K	5%	1/10W
R514	1-216-081-00	METAL CHIP	22K	5%	1/10W
R516	1-216-097-00	RES, CHIP	100K	5%	1/10W
R517	1-216-097-00	RES, CHIP	100K	5%	1/10W
R518	1-216-049-11	RES, CHIP	1K	5%	1/10W
R519	1-216-049-11	RES, CHIP	1K	5%	1/10W
R520	1-216-097-00	RES, CHIP	100K	5%	1/10W
R521	1-216-097-00	RES, CHIP	100K	5%	1/10W
R522	1-216-097-00	RES, CHIP	100K	5%	1/10W
R523	1-216-097-00	RES, CHIP	100K	5%	1/10W
R524	1-216-097-00	RES, CHIP	100K	5%	1/10W
R526	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R531	1-216-049-11	RES, CHIP	1K	5%	1/10W
R532	1-216-049-11	RES, CHIP	1K	5%	1/10W
R533	1-216-049-11	RES, CHIP	1K	5%	1/10W
R534	1-216-049-11	RES, CHIP	1K	5%	1/10W
R535	1-216-097-00	RES, CHIP	100K	5%	1/10W
R536	1-216-097-00	RES, CHIP	100K	5%	1/10W
R537	1-216-097-00	RES, CHIP	100K	5%	1/10W
R538	1-216-097-00	RES, CHIP	100K	5%	1/10W
R539	1-216-097-00	RES, CHIP	100K	5%	1/10W
R540	1-216-097-00	RES, CHIP	100K	5%	1/10W
R541	1-216-081-00	METAL CHIP	22K	5%	1/10W
R542	1-216-081-00	METAL CHIP	22K	5%	1/10W
R546	1-216-041-00	METAL CHIP	470	5%	1/10W
R551	1-216-073-00	METAL CHIP	10K	5%	1/10W
R552	1-216-097-00	RES, CHIP	100K	5%	1/10W
R553	1-216-049-11	RES, CHIP	1K	5%	1/10W
R556	1-216-049-11	RES, CHIP	1K	5%	1/10W
R561	1-216-025-00	RES, CHIP	100	5%	1/10W
R562	1-216-025-00	RES, CHIP	100	5%	1/10W
R563	1-216-675-11	METAL CHIP	10K	0.5%	1/10W
R564	1-216-675-11	METAL CHIP	10K	0.5%	1/10W
R566	1-216-675-11	METAL CHIP	10K	0.5%	1/10W
R567	1-216-675-11	METAL CHIP	10K	0.5%	1/10W
R571	1-216-025-00	RES, CHIP	100	5%	1/10W
R572	1-216-025-00	RES, CHIP	100	5%	1/10W
R573	1-216-073-00	METAL CHIP	10K	5%	1/10W
R574	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R578	1-216-009-00	METAL CHIP	22	5%	1/10W
R581	1-216-206-00	RES, CHIP	2.2K	5%	1/8W
R582	1-216-073-00	METAL CHIP	10K	5%	1/10W
R584	1-216-081-00	METAL CHIP	22K	5%	1/10W
R585	1-216-081-00	METAL CHIP	22K	5%	1/10W
R591	1-216-206-00	RES, CHIP	2.2K	5%	1/8W
R592	1-216-073-00	METAL CHIP	10K	5%	1/10W
R594	1-216-081-00	METAL CHIP	22K	5%	1/10W
R595	1-216-081-00	METAL CHIP	22K	5%	1/10W
R651	1-216-049-11	RES, CHIP	1K	5%	1/10W
R652	1-216-049-11	RES, CHIP	1K	5%	1/10W
R657	1-216-097-00	RES, CHIP	100K	5%	1/10W
R658	1-216-066-00	METAL CHIP	5.1K	5%	1/10W
R659	1-216-073-00	METAL CHIP	10K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R661	1-216-025-00	RES, CHIP	100	5%	1/10W
R662	1-216-025-00	RES, CHIP	100	5%	1/10W
R664	1-216-049-11	RES, CHIP	1K	5%	1/10W
R667	1-216-025-00	RES, CHIP	100	5%	1/10W
R669	1-216-025-00	RES, CHIP	100	5%	1/10W
R670	1-216-025-00	RES, CHIP	100	5%	1/10W
R671	1-216-025-00	RES, CHIP	100	5%	1/10W
R672	1-216-025-00	RES, CHIP	100	5%	1/10W
R673	1-216-025-00	RES, CHIP	100	5%	1/10W
R675	1-216-699-11	METAL CHIP	100K	0.5%	1/10W
R676	1-216-699-11	METAL CHIP	100K	0.5%	1/10W
R701	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R702	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R703	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R704	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R705	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R706	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R707	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R708	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R714	1-216-049-11	RES, CHIP	1K	5%	1/10W
R715	1-216-073-00	METAL CHIP	10K	5%	1/10W
R923	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R924	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R932	1-216-049-11	RES, CHIP	1K	5%	1/10W (US)
R932	1-216-061-00	METAL CHIP	3.3K	5%	1/10W (E)
R933	1-216-073-00	METAL CHIP	10K	5%	1/10W
R942	1-216-049-11	RES, CHIP	1K	5%	1/10W (US)
R942	1-216-061-00	METAL CHIP	3.3K	5%	1/10W (E)
R943	1-216-073-00	METAL CHIP	10K	5%	1/10W
R951	1-216-017-00	RES, CHIP	47	5%	1/10W
R952	1-216-089-00	RES, CHIP	47K	5%	1/10W
R953	1-216-081-00	METAL CHIP	22K	5%	1/10W
R954	1-216-081-00	METAL CHIP	22K	5%	1/10W
R999	1-216-296-00	SHORT	0		
		< VARIABLE RESISTOR >			
RV251	1-238-600-11	RES, ADJ, CARBON 10K			
RV261	1-238-600-11	RES, ADJ, CARBON 10K			
		< SWITCH >			
S101	1-571-478-11	SWITCH, SLIDE (FREQUENCY SELECT) (E)			
S501	1-571-478-11	SWITCH, SLIDE (POWER SELECT)			
S541	1-762-108-11	SWITCH, PUSH (1 KEY) (PANEL DETACH DETECT)			
S551	1-692-431-21	SWITCH, TACTILE (RESET)			
		< TUNER UNIT >			
TU11	A-3282-019-A	TUX-008 (EA) (FM/AM TUNER UNIT) (E)			
TU11	A-3282-029-A	TUX-006/2 (E) (FM/AM TUNER UNIT) (US)			
		< VIBRATOR >			
X91	1-579-373-11	VIBRATOR, CRYSTAL (7.2MHz)			
X501	1-767-460-21	VIBRATOR, CERAMIC (5MHz)			
X502	1-579-886-21	VIBRATOR, CRYSTAL (32.768kHz)			

****

Ref. No.	Part No.	Description			Remark
*	1-665-379-11	SUB BOARD			
		**********			
		< CONNECTOR >			
CN800	1-779-170-11	SOCKET, CONNECTOR 20P			
CN801	1-779-169-11	SOCKET, CONNECTOR 18P			
		< DIODE >			
D800	8-719-422-64	DIODE MA8062-M			
D801	8-719-422-64	DIODE MA8062-M			
D802	8-719-422-64	DIODE MA8062-M			
D803	8-719-422-64	DIODE MA8062-M			
		< DIODE >			
LED800	8-719-058-14	LED CL-220PG-C-TS (TAPE WINDOW)			
		< SWITCH >			
LSW800	1-762-619-11	SWITCH, KEY BOARD (WITH LED) (⏏)			
		< TRANSISTOR >			
Q800	8-729-424-08	TRANSISTOR UN2111			
Q801	8-729-421-22	TRANSISTOR UN2211			
		< RESISTOR >			
R800	1-216-073-00	METAL CHIP	10K	5%	1/10W
R801	1-216-073-00	METAL CHIP	10K	5%	1/10W
R803	1-216-037-00	METAL CHIP	330	5%	1/10W
R804	1-216-049-11	RES, CHIP	1K	5%	1/10W
R805	1-216-049-11	RES, CHIP	1K	5%	1/10W
R806	1-216-049-11	RES, CHIP	1K	5%	1/10W
R807	1-216-049-11	RES, CHIP	1K	5%	1/10W
R808	1-216-089-00	RES, CHIP	47K	5%	1/10W (E)
R809	1-216-089-00	RES, CHIP	47K	5%	1/10W
**********					
		MISCELLANEOUS			
		**********			
2	1-776-207-11	CORD (WITH CONNECTOR) (POWER)			
F901	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) (10A)			
HP901	1-500-157-21	HEAD, MAGNETIC (PLAYBACK)			
M901	A-3291-665-A	MOTOR ASSY, MAIN (CAPSTAN/REEL)			
**********					
		**********			
		HARDWARE LIST			
		**********			
#1	7-621-772-30	SCREW +B 2X6			
#2	7-621-255-15	SCREW +P 2X3			
#3	7-685-793-09	SCREW +PTT 2.6X8 (S)			
#5	7-685-105-19	SCREW +P 2X8 TYPE2 NON-SLIT			
#6	7-624-104-04	STOP RING 2.0, TYPE-E			
#7	7-627-553-17	PRECISION SCREW +P 2X2 TYPE 3			
**********					

Ref. No.	Part No.	Description	Remark
		ACCESSORIES & PACKING MATERIALS	
		**********	
	1-467-559-71	REMOTE COMMANDER (RM-X45) (E)	
	1-473-067-31	REMOTE COMMANDER (RM-X2S) (C7200: E)	
	1-473-067-51	REMOTE COMMANDER (RM-X2S) (C7200W)	
*	3-012-070-01	LABEL (SOUND) (2) (for RM-X2S) (E)	
	X-3373-926-1	CASE ASSY (XR) (for FRONT PANEL)	
	3-862-508-11	MANUAL, INSTRUCTION (ENGLISH, SPANISH, CHINESE) (E)	
	3-862-508-21	MANUAL, INSTRUCTION (ENGLISH)(US)	
	3-862-509-11	MANUAL, INSTRUCTION, INSTALL (ENGLISH, SPANISH, CHINESE)(E)	
	3-862-509-21	MANUAL, INSTRUCTION, INSTALL (ENGLISH, FRENCH) (US)	
	9-934-081-01	LID, BATTERY CASE (for RM-X45) (E)	
**********			
		PARTS FOR INSTALLATION AND CONNECTIONS	
		**********	
501	3-009-613-21	FRAME	
502	3-914-406-01	SUPPORT (ND), FITTING (US)	
503	X-3370-076-1	SCREW ASSY (U. KEY), FITTING (US)	
504	3-934-325-01	SCREW, +K (5X8) TAPPING	
505	3-012-213-01	COLLAR (C7200)	
505	3-012-213-11	COLLAR (C7200W)	
506	1-776-207-11	CORD (WITH CONNECTOR) (POWER)	
507	X-3370-077-1	SCREW ASSY (AE. KEY), FITTING (E)	
508	X-3373-432-1	BRACKET ASSY (for RM-X2S) (E)	



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